

CHƯƠNG TRÌNH ĐÀO TẠO KHÓA 2025
NGÀNH QUẢN LÝ XÂY DỰNG
TRÌNH ĐỘ ĐẠI HỌC

*(Kèm theo Quyết định số /QĐ-ĐHQT ngày tháng năm 2025
của Hiệu trưởng Trường Đại học Quốc tế)*

1. Thông tin chung

- Tên ngành đào tạo:
- + Tiếng Việt: Quản lý Xây dựng
- + Tiếng Anh: Construction Management
- Mã ngành đào tạo: 7580302
- Trình độ đào tạo: Đại học
- Loại hình đào tạo: Chính quy
- Thời gian đào tạo: 4.5 – 5 năm
- Tên văn bằng sau khi tốt nghiệp:
- + Tiếng Việt: Kỹ sư Quản lý Xây dựng
- Tiếng Anh: Engineer in Construction Management
- Nơi đào tạo: Trường Đại học Quốc tế - ĐHQG-HCM

2. Thông tin tuyển sinh và kế hoạch đào tạo

a. Đối tượng tuyển sinh

Đối tượng tuyển sinh căn cứ theo quy chế tuyển sinh đại học của Bộ Giáo dục và Đào tạo và Thông tin tuyển sinh hàng năm của Đại học Quốc gia TP.HCM và Thông tin tuyển sinh của trường Đại học Quốc tế.

b. Hình thức tuyển sinh

Trường Đại học Quốc tế thực hiện tuyển sinh theo Quy chế tuyển sinh Đại học ban hành hàng năm bởi Bộ Giáo dục và Đào tạo, căn cứ theo Thông tin tuyển sinh hàng năm của Đại học Quốc gia TP.HCM và Thông tin tuyển sinh của trường Đại học Quốc tế.

c. Nhóm ngành tuyển sinh: Kỹ thuật

d. Tổ hợp môn xét tuyển: A00, A01, B00, B08, D01, D07

e. Dự kiến chỉ tiêu tuyển sinh, quy mô đào tạo: 40 chỉ tiêu

3. Mục tiêu đào tạo

a. Mục tiêu chung:

- Đào tạo nguồn nhân lực có các kiến thức cơ bản vững chắc về khoa học, kỹ thuật và quản lý trong lĩnh vực xây dựng hiện đại; có khả năng vận dụng sáng tạo các kiến thức chuyên ngành để giải quyết các vấn đề đa dạng trong lĩnh vực hoạt động của nghề nghiệp.
- Người học có khả năng nắm bắt rõ các vấn đề về môi trường, xã hội, kinh tế, an ninh và luật pháp ảnh hưởng đến quyết định và đạo đức nghề nghiệp. Có phẩm chất chính trị tốt, sống và làm việc tuân theo các quy định của pháp luật nhà nước Việt Nam.
- Người học được trang bị các kỹ năng mềm cần thiết: khả năng làm việc nhóm, khả năng giải quyết vấn đề, khả năng thuyết trình, khả năng lãnh đạo và kỹ năng quản lý.

Đặc biệt người học có khả năng giao tiếp và làm việc chuyên môn bằng tiếng Anh trong môi trường trong và ngoài nước.

- Người học nhận thức và hiểu rõ tầm quan trọng của việc không ngừng học tập, trau dồi bản thân và khả năng tự học tập trong suốt quá trình làm việc sau này.

Bảng 1. Sự phù hợp của mục tiêu đào tạo với Tầm nhìn, sứ mạng và Mục tiêu giáo dục của Luật giáo dục đại học.

Mục tiêu đào tạo của CTĐT	Tầm nhìn	Sứ mạng	Luật giáo dục
MT1: Đào tạo nguồn nhân lực có chất lượng cao	<i>Đại học Quốc tế trở thành một trường đại học định hướng nghiên cứu hàng đầu tại Việt Nam; là cơ sở đào tạo nhận được sự hợp tác tín cậy của các đối tác giáo dục và nghiên cứu khoa học có uy tín trên thế giới, của doanh nghiệp, các địa phương và xã hội ở Việt Nam.</i>	<i>Đào tạo ra những kỹ sư quản lý xây dựng có phẩm chất, kỹ thuật và đạo đức tốt để phục vụ xã hội và đất nước.</i>	<i>Theo điều 2, Luật giáo dục “phát triển nguồn nhân lực, bồi dưỡng nhân tài, đáp ứng yêu cầu của sự nghiệp xây dựng”</i>
MT2: Nhận thức và phẩm chất đạo đức nghề nghiệp		<i>Đào tạo ra những kỹ sư quản lý xây dựng có phẩm chất đạo đức để phụng sự xã hội và đất nước.</i>	<i>Theo điều 2, Luật giáo dục “có đạo đức, tri thức, văn hóa, sức khỏe, thẩm mỹ và nghề nghiệp”</i>
MT3: Kỹ năng mềm trong công việc		<i>Cung cấp kỹ năng và kiến thức nâng cao về nghiên cứu và quản lý dự án xây dựng cho sinh viên đại học</i>	<i>Theo điều 2, Luật giáo dục “phát triển toàn diện con người Việt Nam có đạo đức, tri thức, văn hóa, sức khỏe, thẩm mỹ và nghề nghiệp”</i>
MT4: Nhận thức việc tự học tập và nghiên cứu		<i>Để thúc đẩy tư duy sáng tạo và độc đáo trong tâm trí của các kỹ sư để đối mặt với những thách thức của tương lai.</i>	<i>Theo điều 2, Luật giáo dục “phát huy tiềm năng, khả năng sáng tạo của mỗi cá nhân”</i>

b. Mục tiêu cụ thể (Program Objectives - POs)

Mục tiêu cụ thể của CTĐT được xác định từ mục tiêu chung, bao gồm 09 mục tiêu, trong đó có 03 mục tiêu về kiến thức, 04 mục tiêu về kỹ năng và 02 mục tiêu về tự chủ và trách nhiệm, được trình bày như sau:

Kiến thức:

- **PO1:** Có kiến thức cơ bản về các vấn đề kỹ thuật – công nghệ liên quan đến xây dựng: cơ học kỹ thuật, sức bền vật liệu, cơ học đất và nền móng, kết cấu công trình, và các kỹ thuật đo đạc, thí nghiệm, phân tích và tổng hợp số liệu phục vụ cho công tác thiết kế, quản lý triển khai các dự án xây dựng.
- **PO2:** Có kiến thức rộng về các vấn đề liên quan đến việc quản lý doanh nghiệp xây dựng và chuyển đổi số trong xây dựng. Người học được trang bị những kiến thức chuyên môn phù hợp, sát với thực tế sẵn sàng đảm nhiệm công tác tổ chức và điều hành hoạt động xây dựng.
- **PO3:** Được trang bị những kiến thức về việc lập kế hoạch, tổ chức thực hiện, kiểm soát và kiểm tra quá trình thực hiện dự án xây dựng. Đánh giá được các hiệu quả kinh tế, tài chính, xã hội của dự án xây dựng. Nhận diện được các vấn đề nảy sinh và đưa ra các quyết định phù hợp trong suốt quá trình quản lý và thực hiện dự án xây dựng.

Kỹ năng:

- **PO5:** Kỹ năng đánh giá tác động của dự án xây dựng đối với môi trường, kinh tế, xã hội.
- **PO6:** Được trang bị những kỹ năng trong việc lập, triển khai và quản lý dự án đầu tư xây dựng công trình. Được trang bị các kỹ năng ra quyết định để có thể đưa ra các quyết định và giải pháp độc lập, logic, thể hiện tư duy phản biện, và phù hợp liên quan đến đảm bảo tiến độ, chất lượng và tài chính trong từng giai đoạn thực hiện dự án.
- **PO7:** Có khả năng giao tiếp và giải quyết các vấn đề chuyên môn bằng tiếng Anh (ở mức độ thành thạo)
- **PO8:** Có khả năng làm việc nhóm, sẵn sàng hợp tác, hỗ trợ, và giúp đỡ đồng nghiệp.

Tự chủ và trách nhiệm:

- **PO4:** Có phẩm chất chính trị, đạo đức nghề nghiệp, hiểu biết đúng đắn về đường lối, chính sách của Đảng và Nhà nước; có sức khỏe tốt và có những kỹ năng làm việc tốt trong môi trường xây dựng
- **PO9:** Có năng lực độc lập suy nghĩ, sáng tạo trong các hoạt động nghề nghiệp; có khả năng tự học nâng cao trình độ, tham gia nghiên cứu khoa học, ứng dụng công nghệ mới vào thực tiễn.

4. Chuẩn đầu ra của chương trình đào tạo (Program Learning Outcomes –PLOs)

Sau khi tốt nghiệp chương trình đào tạo, kỹ sư Quản lý Xây dựng đạt được những chuẩn đầu ra (CDR) như sau:

- **CDR1:** Hiểu và vận dụng được kiến thức tự nhiên và khoa học xã hội trong việc tiếp thu, lý giải và áp dụng kiến thức, phương pháp trong lĩnh vực Quản lý Xây dựng.
- **CDR2:** Hiểu và vận dụng được kiến thức cơ bản về quản lý kinh tế và chuyển đổi số trong xây dựng trong thu thập dữ liệu, việc thống kê, phân tích và lý giải các mô hình quản lý xây dựng cũng như các tác động kinh tế qua lại.
- **CDR3:** Hiểu và vận dụng được các mô hình toán học, phương pháp giải quyết các vấn đề, công việc liên quan đến kỹ thuật và kinh tế, kiến thức chuyên ngành quản lý xây dựng trong việc giải quyết các vấn đề chuyên môn khác nhau của dự án xây dựng.

- **CDR4:** Hiểu rõ quy trình lập và thẩm định dự án đầu tư xây dựng. Sử dụng thành thạo các kỹ thuật mô phỏng, tối ưu hóa mô hình tài chính, phân tích kinh tế, xã hội trong việc đánh giá, thẩm định các phương án khả thi của dự án đầu tư xây dựng; thực hiện lược khảo nghiên cứu, thu thập và diễn dịch dữ liệu dựa trên các phương pháp nghiên cứu khoa học.
- **CDR5:** Nắm vững các phương pháp và kỹ thuật trong việc quản lý dự án xây dựng; và khả năng nghiên cứu áp dụng lý thuyết, kết quả mới vào thực tế. Sử dụng tốt các kỹ năng chuyên môn trong việc lập kế hoạch, quản lý chi phí, tiến độ, chất lượng và hợp đồng dự án xây dựng cũng như ứng dụng trí tuệ nhân tạo và hệ thống thông tin công trình để cải tiến kết quả thực hiện quản lý dự án.
- **CDR6:** Nắm vững kỹ năng nhận dạng, phân tích, đánh giá vấn đề cũng như khả năng tư duy độc lập, logic, phản biện trong việc tìm kiếm giải pháp dưới góc độ tổng thể và tích hợp liên ngành. Bên cạnh đó phát huy khả năng lãnh đạo, phối hợp công việc và kỹ năng làm việc nhóm trong môi trường liên ngành, đa văn hóa.
- **CDR7:** Am hiểu các kỹ thuật và kỹ năng giao tiếp hiệu quả và chủ động làm việc độc lập hoặc làm việc nhóm cũng như hiểu rõ trách nhiệm của lãnh đạo.
- **CDR8** Thể hiện tốt khả năng hòa nhập môi trường quốc tế thông qua khả năng am hiểu và giao tiếp bằng tiếng Anh chuyên ngành Quản lý Xây dựng trong công việc bằng các hình thức văn bản, trình bày, thuyết trình cũng như thiết lập các mối quan hệ trong lĩnh vực chuyên môn và liên ngành.
- **CDR9:** Xác định được các giới hạn, chuẩn mực đạo đức trong hoạt động nghề nghiệp và ứng xử phù hợp với trách nhiệm nghề nghiệp của một người hành nghề xây dựng; và hiểu được tác động của việc ra quyết định tới xã hội.
- **CDR10:** Xây dựng được ý thức tự học tập, nghiên cứu nâng cao trình độ cũng như chủ động trong việc xây dựng mục tiêu cá nhân, lộ trình phát triển nghề nghiệp trong tương lai và lập kế hoạch thực hiện.

Cụ thể mỗi chuẩn đầu ra bao gồm những tiêu chí nhỏ và được đo lường thể hiện tại như sau:

Nội dung chuẩn đầu ra chương trình đào tạo

Tiêu chí	NỘI DUNG CHUẨN ĐẦU RA	Chương trình CLC
1	Khối kiến thức giáo dục đại cương, cơ sở ngành và chuyên ngành Quản lý Xây dựng	
1.1	Kiến thức chung về khoa học tự nhiên- xã hội (PLO1)	
1.1.1	Hệ thống hóa được kiến thức nền tảng về khoa học tự nhiên và khoa học xã hội	4,0
1.1.2	Liên hệ kiến thức khoa học tự nhiên và khoa học xã hội trong việc lý giải kiến thức chung và kiến thức chuyên ngành Quản lý Xây dựng	4,0
1.1.3	Vận dụng được những kiến thức khoa học cơ bản, công nghệ vào việc tiếp thu và áp dụng kiến thức chuyên ngành Quản lý Xây dựng	4,0

1.2	Kiến thức cơ bản về quản lý kinh tế (PLO2)	
Tiêu chí	NỘI DUNG CHUẨN ĐẦU RA	Chương trình CLC
1.2.1	Hiểu biết các vấn đề quản lý kinh tế cơ bản và chuyển đổi số trong xây dựng	4,0
1.2.2	Hiểu biết và vận dụng được các công cụ thống kê (bao gồm thu thập dữ liệu) và hiểu được tầm quan trọng trong việc sử dụng thống kê trong kinh tế học nói chung	4,0
1.2.3	Hiểu biết các mô hình quản lý trong doanh nghiệp xây dựng cũng như các tác động kinh tế qua lại tới quản lý	4,0
1.3	Kiến thức chuyên ngành Quản lý Xây dựng (PLO3)	
1.3.1	Vận dụng được các công cụ toán học phục vụ giải quyết các bài toán liên quan đến Quản lý Xây dựng.	4,0
1.3.2	Hiểu biết các phương pháp giải quyết các vấn đề liên quan đến việc quản lý kinh tế, tài chính, nhân sự, lãnh đạo, và khả năng phối hợp tổ chức nhằm phục vụ công tác Quản lý Xây dựng.	4,5
1.3.3	Hiểu biết các phương pháp lập kế hoạch, tổ chức thực hiện, kiểm soát và kiểm tra các hoạt động xây dựng, nhận diện được các vấn đề nảy sinh và đưa ra các quyết định phù hợp trong các hoạt động xây dựng.	4,5
1.3.4	Được trang bị các kiến thức đánh giá hiệu quả kinh tế, tài chính, xã hội của dự án; nhận thức đầy đủ về tác động của dự án đối với môi trường, kinh tế và xã hội.	4,5
1.3.5	Được trang bị các kiến thức về tính toán khối lượng, chi phí, lập tiến độ, triển khai đấu thầu, soạn thảo hợp đồng, và quản lý chất lượng dự án	4,5
2	Kỹ năng chuyên môn về Quản lý Xây dựng	
2.1	Kỹ năng lập và thẩm định dự án (PLO4)	
2.1.1	Kỹ năng xác định mục tiêu, quy mô, sự cần thiết phải đầu tư dự án, căn cứ pháp lý của dự án	4,5
2.1.2	Kỹ năng phân tích, mô phỏng mô hình tài chính nhằm đánh giá hiệu quả kinh tế, tài chính, xã hội của dự án	5,0
2.2	Kỹ năng quản lý dự án (PLO5)	

Tiêu chí	NỘI DUNG CHUẨN ĐẦU RA	Chương trình CLC
2.2.1	Nghiên cứu áp dụng lý thuyết và kết quả mới vào thực tế dự án xây dựng triển khai.	4,5
2.2.2	Kỹ năng xác định và quản lý khối lượng và chất lượng và chi phí	4,5
2.2.3	Kỹ năng lập và quản lý tiến độ	4,5
2.2.3	Kỹ năng đàm phán và quản lý hợp đồng	4,5
3	Kỹ năng mềm	
3.1	Làm việc nhóm (PLO6)	
3.1.1	Kỹ năng đặt vấn đề, đánh giá và phân tích vấn đề dưới góc độ tổng thể và tích hợp liên ngành	4,5
3.1.2	Có khả năng làm việc độc lập với tư duy logic, sáng tạo, và phản biện	4,5
3.1.3	Có khả năng phối hợp công việc và phát huy kỹ năng làm việc nhóm trong môi trường liên ngành, đa văn hóa	4,5
3.2	Giao tiếp trong công việc (PLO7)	
3.2.1	Am hiểu kỹ năng giao tiếp bằng văn bản	4,5
3.2.2	Thành thạo kỹ năng thuyết trình	4,5
3.2.3	Kỹ năng trình bày trước đám đông trong những tình huống thực tế khác nhau	5,0
3.2.4	Có khả năng thiết lập các quan hệ nghề nghiệp trong môi trường làm việc liên ngành và đa văn hóa	4,5
3.3	Kỹ năng ngoại ngữ (PLO8)	
3.3.1	Nghe, nói, đọc và viết ngoại ngữ tốt (tiếng Anh IELTS 5.5 hoặc tương đương) trong môi trường quốc tế	5,0

Tiêu chí	NỘI DUNG CHUẨN ĐẦU RA	Chương trình CLC
3.3.2	Trình bày, sử dụng được tiếng Anh chuyên ngành Quản lý Xây dựng	5,0
4	Thái độ cá nhân và đạo đức nghề nghiệp	
4.1	Đạo đức nghề nghiệp (PLO9)	
4.1.1	Xác định được các giới hạn, chuẩn mực đạo đức trong hoạt động nghề nghiệp; và nhận thức được tác động của quyết định nghề nghiệp tới môi trường xung quanh	4,5
4.1.2	Ứng xử phù hợp với trách nhiệm nghề nghiệp của một người hành nghề xây dựng, đóng góp vào việc giữ gìn các chuẩn mực đạo đức trong lĩnh vực xây dựng	4,5
4.2	Khả năng học tập và nâng cao trình độ sau khi ra trường (PLO10)	
4.2.1	Tự ý thức học tập và nghiên cứu nâng cao trình độ.	4,5
4.2.2	Xây dựng mục tiêu cá nhân đối với việc phát triển nghề nghiệp trong tương lai và lộ trình, kế hoạch thực hiện mục tiêu đó một cách độc lập và tự giác	4,5
4.2.3	Thực hiện các công trình nghiên cứu khoa học liên quan đến chuyên ngành Quản lý xây dựng	4,5

*Các chuẩn đầu ra được đo bằng thang đo Bloom hiệu chỉnh gồm sáu cấp độ: Nhớ (1) - Hiểu (2) – Vận dụng (3) – Phân tích (4) – Đánh giá (5) – Sáng tạo (6). Các chuẩn đầu ra ở mức 4.5 nằm ở vị thế trung gian giữa mức Phân tích và Đánh giá, hàm ý là người học có khả năng phân tích nhưng chưa đạt tới mức độ toàn diện để làm cơ sở cho hoạt động đánh giá.

5. Ma trận giữa mục tiêu đào tạo và chuẩn đầu ra

Bảng 2. Mối quan hệ giữa CDR của CTĐT và mục tiêu đào tạo

Mục tiêu (PO) với Chuẩn đầu ra (PLO)		PO 01	PO 02	PO 03	PO 04	PO 05	PO 06	PO 07	PO 08	PO 09
Khối kiến thức giáo dục đại cương, cơ sở ngành	PLO1	x	x		x					
	PLO2		x	x	x					

và chuyên ngành Quản lý Xây dựng	PLO3			x	x	x	x			
Kỹ năng chuyên môn về Quản lý Xây dựng Kỹ năng mềm trong công việc	PLO4			x		x	x	x	x	
	PLO5						x	x	x	x
	PLO6							x	x	
	PLO7							x		
	PLO8								x	
Thái độ cá nhân và đạo đức nghề nghiệp	PLO9				x					x
	PLO10									x

6. Quy trình đào tạo, điều kiện tốt nghiệp

Căn cứ Quyết định số 1342/QĐ-ĐHQG ngày 30 tháng 9 năm 2022 của Giám đốc Đại học Quốc gia Thành phố Hồ Chí Minh về việc ban hành Quy chế đào tạo trình độ đại học.

Căn cứ Quyết định số 719/QĐ-ĐHQT ngày 06 tháng 12 năm 2021 của Hiệu trưởng trường Đại học Quốc tế về việc ban hành Quy chế đào tạo trình độ đại học theo hệ thống tín chỉ tại trường Đại học Quốc tế.

7. Thang điểm (theo thang điểm chính thức của trường)

Trường quy định thang điểm đánh giá kết quả học tập của người học (Quy chế đào tạo trình độ đại học theo hệ thống tín chỉ tại trường Đại học Quốc tế)

Bảng 3: Thang điểm

Xếp loại	Thang điểm 100	Điểm chữ	Thang điểm 4
Xuất sắc	Từ 90 đến 100	A+	4,0
Giỏi	Từ 80 đến cận 90	A	3,5
Khá	Từ 70 đến cận 80	B+	3,0
Trung bình khá	Từ 60 đến cận 70	B	2,5
Trung bình	Từ 50 đến cận 60	C	2,0
Yếu	Từ 40 đến cận 50	D+	1,5
Kém	Từ 30 đến cận 40	D	1,0
	Dưới 30	F	0,0

8. Khối lượng kiến thức toàn khoá

Tổng số tín chỉ: **150 tín chỉ**, trong đó phân bổ kiến thức như Bảng 4 (không bao gồm Giáo dục thể chất và Giáo dục quốc phòng):

Bảng 4. Cấu trúc chương trình đào tạo

TT	Các khối kiến thức ⁽³⁾	Khối lượng			
		Số tín chỉ			Tỷ lệ % (Tổng khối kiến thức/Tổng số tín chỉ)
		Tổng	Lý thuyết	Thực hành	
I	Khối kiến thức giáo dục đại cương	44			29,3%
	- Bắt buộc: 47 tín chỉ	44	44	0	
	- Tự chọn: 0 tín chỉ	0	0	0	
II	Khối kiến thức cơ sở ngành	47			31,3%
	- Bắt buộc: 47 tín chỉ	47	45	2	
	- Tự chọn: 0 tín chỉ	0	0	0	
III	Kiến thức chuyên ngành	46			30,7%
	- Bắt buộc: 30 tín chỉ	30	27	3	
	- Tự chọn: 16 tín chỉ	16	15	1	
IV	Kiến thức bổ trợ	0			0
	- Bắt buộc: 0 tín chỉ	0	0	0	
	- Tự chọn: 0 tín chỉ	0	0	0	
V	Thực tập, khóa luận/luận văn tốt nghiệp	13			8,7%
	Tổng cộng	150			100%

Theo quy định của điều 8 Thông tư số 17/2021/TT-BGDĐT ngày 22/6/2021, chương trình đào tạo ngành Quản lý Xây dựng được thiết kế với 8 tín chỉ thực tập gồm: Đồ án quản lý xây dựng (01 tín chỉ), Đồ án đo bóc khối lượng và ước tính chi phí xây dựng (01 tín chỉ), Đồ án hoạch định và tiến độ xây dựng (01 tín chỉ), Đồ án lập và thẩm định dự án đầu tư (01 tín chỉ), Đồ án hệ thống quản lý thông tin công trình (01 tín chỉ), Thực tập tốt nghiệp (03 tín chỉ).

9. Nội dung chương trình đào tạo

Bảng 5: Khung CTĐT chung của nhóm ngành

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
I	Kiến thức giáo dục đại cương				38	32	6	
I.1	Lý luận Chính trị							
1	PE015IU	Triết học Mác-Lênin	Philosophy of Marxism and Leninism	Bắt buộc	3	3	0	
2	PE016IU	Kinh tế chính trị Mác-Lênin	Political Economics of Marxism and Leninism	Bắt buộc	2	2	0	
3	PE017IU	Chủ nghĩa xã hội khoa học	Scientific Socialism	Bắt buộc	2	2	0	
4	PE018IU	Lịch sử Đảng Cộng sản Việt Nam	History of Vietnamese Communist Party	Bắt buộc	2	2	0	
5	PE019IU	Tư tưởng Hồ Chí Minh	Ho Chi Minh's Thoughts	Bắt buộc	2	2	0	
I.2	Toán-Tin-Khoa học Tự nhiên							
6	MA001IU	Toán 1	Calculus 1	Bắt buộc	4	4	0	
7	MA003IU	Toán 2	Calculus 2	Bắt buộc	4	4	0	
8	PH013IU	Vật lý 1	Physics 1	Bắt buộc	2	2	0	

I.3	Khoa học xã hội- Nhân văn – Nghệ thuật							
9	PE021IU	Pháp luật đại cương	General Law	Bắt buộc	3	3	0	
I.4	Ngoại ngữ							
10	EN007IU	Tiếng Anh chuyên ngành 1 (kỹ năng viết)	Writing AE1	Bắt buộc	2	2	0	
11	EN008IU	Tiếng Anh chuyên ngành 1 (kỹ năng nghe)	Listening AE1	Bắt buộc	2	2	0	
12	EN011IU	Tiếng Anh chuyên ngành 2 (kỹ năng viết)	Writing AE2	Bắt buộc	2	2	0	
13	EN012IU	Tiếng Anh chuyên ngành 2 (kỹ năng nói)	Speaking AE2	Bắt buộc	2	2	0	
I.5	Giáo dục thể chất							
14	PT001IU		Physical Training 1	Bắt buộc	3	0	3	
15	PT002IU		Physical Training 2	Bắt buộc	3	0	3	

Bảng 6. Các môn học thuộc CTĐT

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
I	Kiến thức giáo dục đại cương				<u>44</u>			
1	PE015IU	Triết học Mác-Lênin	Philosophy of Marxism and Leninism	Bắt buộc	3	3	0	
2	PE016IU	Kinh tế chính trị Mác-Lênin	Political Economics of Marxism and Leninism	Bắt buộc	2	2	0	
3	PE017IU	Chủ nghĩa xã hội khoa học	Scientific Socialism	Bắt buộc	2	2	0	
4	PE018IU	Lịch sử Đảng Cộng sản Việt Nam	History of Vietnamese Communist Party	Bắt buộc	2	2	0	
5	PE019IU	Tư tưởng Hồ Chí Minh	Ho Chi Minh's Thoughts	Bắt buộc	2	2	0	
6	MA001IU	Toán 1	Calculus 1	Bắt buộc	4	4	0	
7	MA003IU	Toán 2	Calculus 2	Bắt buộc	4	4	0	
8	PH013IU	Vật lý 1	Physics 1	Bắt buộc	2	2	0	
9	BA080IU	Thống kê kinh doanh	Statistics for Business	Bắt buộc	3	3	0	
10	PE021IU	Pháp luật đại cương	General Law	Bắt buộc	3	3	0	
11	CM309IU	Kinh tế Xây dựng	Construction Economics	Bắt buộc	3	3	0	
12	BA003IU	Nguyên lý Marketing	Principles of Marketing	Bắt buộc	3	3	0	
13	PE022IU	Đạo đức nghề nghiệp và tư duy phản biện	Engineering Ethics and Critical thinking	Bắt buộc	3	3	0	

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
14	EN007IU	Tiếng Anh chuyên ngành 1 (kỹ năng viết)	Writing AE1	Bắt buộc	2	2	0	
15	EN008IU	Tiếng Anh chuyên ngành 1 (kỹ năng nghe)	Listening AE1	Bắt buộc	2	2	0	
16	EN011IU	Tiếng Anh chuyên ngành 2 (kỹ năng viết)	Writing AE2	Bắt buộc	2	2	0	
17	EN012IU	Tiếng Anh chuyên ngành 2 (kỹ năng nói)	Speaking AE2	Bắt buộc	2	2	0	
II	Kiến thức giáo dục chuyên nghiệp							
A	Kiến thức cơ sở khối ngành và nhóm ngành				<u>47</u>			
18	CE105IU	Cơ kỹ thuật và sức bền vật liệu	Engineering Mechanics and Mechanics of Materials	Bắt buộc	3	3	0	
19	CE210IU	Vật liệu xây dựng	Construction Materials	Bắt buộc	3	3	0	
20	CE103IU	Vẽ kỹ thuật	Computer-Aided Design and Drafting	Bắt buộc	3	3	0	
21	CE104IU	Thực hành vẽ kỹ thuật	Computer-Aided Design and Drafting Practice	Bắt buộc	1	0	1	

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
22	CE106IU	Cơ học đất và nền móng	Soil mechanics and foundation	Bắt buộc	3	3	0	
23	CE209IU	Phân tích kết cấu 1	Structural Analysis 1	Bắt buộc	2	2	0	
24	CE304IU	Kết cấu bê tông cốt thép 1	Reinforced Concrete 1	Bắt buộc	3	3	0	
25	CE305IU	Kết cấu thép	Steel structures	Bắt buộc	3	3	0	
26	CE307IU	Trắc địa	Surveying	Bắt buộc	2	2	0	
27	CM205IU	Quản lý xây dựng nhập môn	Introduction to Construction Management	Bắt buộc	2	2	0	
28	CM203IU	Đồ án quản lý xây dựng	Construction Management Project	Bắt buộc	1	0	1	
29	BA168IU	Phân tích định lượng trong kinh doanh	Quantitative method for business	Bắt buộc	3	3	0	
30	BA156IU	Quản lý nhân sự	Human Resource Management	Bắt buộc	3	3	0	
31	CM301IU	Quản lý vận hành trong xây dựng	Operation Management in Construction	Bắt buộc	3	3	0	
32	CM308IU	Lập và thẩm định dự án đầu tư xây dựng	Project Feasibility Study and Appraisal	Bắt buộc	3	3	0	

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
33	CM311IU	Quản lý dự án xây dựng (phần mở rộng PMBOK)	Construction project management (PMBOK extension)	Bắt buộc	3	3	0	
34	BA161IU	Phương pháp nghiên cứu	Business Research Methods	Bắt buộc	3	3	0	
35	CE217IU	Trí tuệ nhân tạo trong Kỹ thuật và Quản lý Xây dựng	Artificial Intelligence in Civil Engineering and Construction Management	Bắt buộc	3	3	0	
B	Kiến thức ngành và chuyên ngành				24			
36	BA098IU	Lãnh đạo	Leadership	Bắt buộc	3	3	0	
37	BA171IU	Quản lý rủi ro	Risk Management	Bắt buộc	3	3	0	
38	CM303IU	Hoạch định và tiến độ xây dựng	Construction Planning and Scheduling	Bắt buộc	3	3	0	
39	CM307IU	Đồ án hoạch định và tiến độ xây dựng	Construction Planning and Scheduling Project	Bắt buộc	1	0	1	
40	CM202IU	Đo bóc khối lượng và ước tính chi phí xây dựng	Construction Measurement and Cost Estimating	Bắt buộc	3	3	0	
41	CM304IU	Đồ án đo bóc khối lượng và ước tính chi phí xây dựng	Construction measurement and Cost Estimating Project	Bắt buộc	1	0	1	

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
42	CM305IU	Quản lý chi phí xây dựng	Construction Cost Management	Bắt buộc	3	3	0	
43	CM302IU	Đấu thầu và mua sắm	Construction Procurement and Tendering	Bắt buộc	3	3	0	
44	CM310IU	Hệ thống quản lý thông tin công trình	Building Information Modeling	Bắt buộc	3	3	0	
45	CM312IU	Đồ án hệ thống quản lý thông tin công trình	Building Information Management Project	Bắt buộc	1	0	1	
C	Kiến thức chuyên sâu của chuyên ngành Quản lý dự án xây dựng (Bắt buộc)				6			
46	CM402IU	Quản lý thi công công trường	Construction Jobsite Management	Bắt buộc	3	3	0	
47	CM404IU	Quản lý hợp đồng – Hợp đồng FIDIC	Contract Management – FIDIC contracts	Bắt buộc	3	3	0	
D	Kiến thức chuyên sâu của chuyên ngành quản lý xây dựng (Bắt buộc)				6			
48	CM403IU	Kỹ thuật giá trị	Value Engineering	Bắt buộc	3	3	0	
49	CE311IU	Kỹ thuật thi công	Construction Engineering	Bắt buộc	3	3	0	
E	Kiến thức chuyên ngành tự chọn				16			
NHÓM TỰ CHỌN 1 – TỰ CHỌN TỰ DO (Select two of the following courses - 6 credits)								
50	BA130IU	Hành vi tổ chức	Organizational Behavior	Tự chọn	3	3	0	

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
51	BA120IU	Kỹ năng vi tính kinh doanh	Business Computing Skills	Tự chọn	3	3	0	
52	BA005IU	Kế toán tài chính	Financial Accounting	Tự chọn	3	3	0	
NHÓM TỰ CHỌN 2 – TỰ CHỌN CHUYÊN NGÀNH (Select three of the following courses - 9 credits)								
53	CM405IU	Quản lý thông tin dự án	Project communication Management	Tự chọn	3	3	0	
54	CM406IU	Quản lý chất lượng thi công	Construction Quality Management	Tự chọn	3	3	0	
55	CM407IU	Quản lý tích hợp dự án	Project Integration Management	Tự chọn	3	3	0	
56	CM408IU	Quản lý tài chính trong xây dựng	Construction Financial Management	Tự chọn	3	3	0	
57	CM403IU	Kỹ thuật giá trị	Value Engineering	Tự chọn	3	3	0	
58	CE311IU	Kỹ thuật thi công	Construction Engineering	Tự chọn	3	3	0	
59	CM404IU	Quản lý hợp đồng – Các	Contract Management – FIDIC contracts	Tự chọn	3	3	0	

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
		loại hợp đồng FIDIC						
60	BA006IU	Thông tin kinh doanh	Business Communications	Tự chọn	3	3	0	
61	BA016IU	Quản lý tài chính cơ bản	Fundamental of Financial Management	Tự chọn	3	3	0	
62	BA018IU	Quản lý chất lượng	Quality Management	Tự chọn	3	3	0	
63	BA115IU	Nhập môn quản trị kinh doanh	Introduction to Business Administration	Tự chọn	3	3	0	
64	CE412IU	Trí tuệ nhân tạo nâng cao trong Kỹ thuật và Quản lý Xây dựng	Advanced Artificial Intelligence in Civil Engineering and Construction Management	Tự chọn	3	3	0	
65	CE310IU	Bê tông cốt thép 2	Reinforced Concrete 2	Tự chọn	3	3	0	
66	CE407IU	Nhà nhiều tầng	Tall Buildings	Tự chọn	3	3	0	
67	CE415IU	Xây dựng bền vững	Sustainable Construction	Tự chọn	3	3	0	
NHÓM TỰ CHỌN 3 – TỰ CHỌN CHUYÊN NGÀNH (Select one of the following courses - 1 credit)								

STT	Mã MH	Tên MH		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Phòng TN
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
68	CE403IU	Đồ án kỹ thuật thi công	Construction Project	Tự chọn	1	0	1	
69	CM401IU	Đồ án lập và thẩm định dự án đầu tư	Feasibility Study and Appraisal Project	Tự chọn	1	0	1	
III	Thực tập tốt nghiệp và làm khoá luận				<u>13</u>			
70	CM306IU	Thực tập	Internship	Bắt buộc	3	0	3	
71	CM420IU	Luận văn tốt nghiệp	Graduation Thesis	Bắt buộc	10	0	10	
	Tổng số (tín chỉ)				<u>150</u>			

10. Dự kiến kế hoạch giảng dạy (phân bố các môn học theo từng học kỳ)

Bảng 7. Kế hoạch giảng dạy theo từng học kỳ (Tham khảo)

HK	Mã MH	Tên môn học (MH)		Loại MH (bắt buộc/ tự chọn)	Tín chỉ			Môn học (Tiên quyết /Trước/ Song hành)
		Tiếng Việt	Tiếng Anh		Tổng cộng	Lý thuyết	Thực hành/ Thí nghiệm	
HKI (19 tín chỉ)	PE015IU	Philosophy of Marxism and Leninism	Triết học Mác-Lênin	Bắt buộc	3	3	0	
	MA001IU	Calculus 1	Toán 1	Bắt buộc	4	4	0	
	PH013IU	Physics 1	Vật lý 1	Bắt buộc	2	2	0	
	PT001IU	Physical Training 1	Giáo dục thể chất 1	Bắt buộc	3	0	3	

	EN007IU	Writing AE1	Tiếng Anh chuyên ngành 1 (Kỹ năng viết)	Bắt buộc	2	2	0	
	EN008IU	Listening AE1	Tiếng Anh chuyên ngành 1 (Kỹ năng nghe)	Bắt buộc	2	2	0	
	PE021IU	General Law	Pháp luật đại cương	Bắt buộc	3	3	0	
HKII (21 tín chỉ)	PE017IU	Scientific Socialism	Chủ nghĩa xã hội khoa học	Bắt buộc	2	2	0	
	MA003IU	Calculus 2	Toán 2	Bắt buộc	4	4	0	
	PE022IU	Engineering Ethics and Critical Thinking	Đạo đức nghề nghiệp và tư duy phản biện	Bắt buộc	3	3	0	
	PT002IU	Physical Training 2	Giáo dục thể chất 2	Bắt buộc	3	3	0	
	EN011IU	Writing AE2	Tiếng Anh chuyên ngành 2 (Kỹ năng viết)	Bắt buộc	2	2	0	
	EN012IU	Speaking AE2	Tiếng Anh chuyên ngành 2 (Kỹ năng nghe)	Bắt buộc	2	2	0	
	CM205IU	Introduction to Construction Management	Nhập môn Quản lý Xây dựng	Bắt buộc	2	2	0	
	CE105IU	Engineering Mechanics and Mechanics of Materials	Cơ kỹ thuật và sức bền vật liệu	Bắt buộc	3	3	0	

HKIII (18 tín chỉ)	CE209IU	Structural Analysis 1	Phân tích kết cấu 1	Bắt buộc	2	2	0	HT: CE105IU - Engineering Mechanics and Mechanics of Materials
	CE103IU	Computer-Aided Design and Drafting	Vẽ kỹ thuật	Bắt buộc	3	3	0	SH: CE104IU - Computer-Aided Design and Drafting Practice
	CE104IU	Computer-Aided Design and Drafting Practice	Thực hành vẽ kỹ thuật	Bắt buộc	1	0	1	SH: CE103IU - Computer-Aided Design and Drafting
	CM301IU	Operation Management in Construction	Quản lý vận hành trong xây dựng	Bắt buộc	3	3	0	HT: CM205IU - Introduction to Construction Management
	CM203IU	Construction Management Project	Đồ án quản lý xây dựng	Bắt buộc	1	0	1	HT: CM205IU - Introduction to Construction Management
	PE016IU	Political Economics of Marxism and Leninism	Kinh tế chính trị Mác- Lênin	Bắt buộc	2	2	0	
	CE210IU	Construction Materials	Vật liệu xây dựng	Bắt buộc	3	3	0	HT: CE105IU - Engineering Mechanics and Mechanics of Materials
	CM309IU	Construction Economics	Kinh tế Xây dựng	Bắt buộc	3	3	0	

HKIV (17 tín chỉ)	CE106IU	Soil mechanics and foundation	Cơ học đất và nền móng	Bắt buộc	3	3	0	
	CE305IU	Steel structures	Kết cấu thép	Bắt buộc	3	3	0	HT: CE209IU - Structural Analysis 1
	CE304IU	Reinforced Concrete 1	Kết cấu bê tông cốt thép 1	Bắt buộc	3	3	0	HT: CE209IU - Structural Analysis 1
	CM202IU	Construction Measuremen t and Cost Estimating	Đo bóc khối lượng và ước tính chi phí xây dựng	Bắt buộc	3	3	0	HT: CE210IU - Construction Materials, CM205 - Introduction to Construction Management , SH: CE304IU - Reinforced Concrete 1
	CE307IU	Surveying	Trắc địa	Bắt buộc	2	2	0	
	BA003IU	Principles of Marketing	Nguyên lý Marketing	Bắt buộc	3	3	0	
HK hệ	MP001IU	Military Training	Giáo dục quốc phòng và an ninh	Bắt buộc				
HK V (18 tín chỉ)	CM310IU	Building Information Modelling	Hệ thống quản lý thông tin công trình	Bắt buộc	3	3	0	
	CM303IU	Construction Planning and Scheduling	Hoạch định và tiến độ xây dựng	Bắt buộc	3	3	0	HT: CM202IU- Construction Measuremen t and Cost Estimating
	BA168IU	Quantitative method for Business	Phân tích định lượng trong kinh doanh	Bắt buộc	3	3	0	

	CM304IU	Construction measurement and Cost Estimating Project	Đồ án đo bóc khối lượng và ước tính chi phí xây dựng	Bắt buộc	1	0	1	HT: CM202IU- Construction Measurement and Cost Estimating
	BA171IU	Risk Management	Quản lý rủi ro	Bắt buộc	3	3	0	
	PE018IU	History of Vietnamese Communist Party	Lịch sử Đảng Cộng sản Việt Nam	Bắt buộc	2	2	0	
	BA156IU	Human Resource Management	Quản lý nhân sự	Bắt buộc	3	3	0	
HK VI (16 tín chỉ)	CM308IU	Project Feasibility Study and Appraisal	Lập và thẩm định dự án đầu tư xây dựng	Bắt buộc	3	3	0	HT: CM303IU - Construction Planning and Scheduling
	CM312IU	Building Information Management Project	Đồ án hệ thống quản lý thông tin công trình	Bắt buộc	1	0	1	HT: CM310IU- Building Information Modelling
	BA080IU	Statistics for Business	Thống kê kinh doanh	Bắt buộc	3	3	0	
	CE217IU	Artificial Intelligence in Civil Engineering and Construction Management	Trí tuệ nhân tạo trong Kỹ thuật và Quản lý Xây dựng	Bắt buộc	3	3	0	
	CM307IU	Construction Planning and Scheduling Project	Đồ án hoạch định và tiến độ xây dựng	Bắt buộc	1	0	1	HT: CM303IU - Construction Planning and Scheduling
	PE019IU	Ho Chi Minh's Thoughts	Tư tưởng Hồ Chí Minh	Bắt buộc	2	2	0	

	CM305IU	Construction Cost Management	Quản lý chi phí xây dựng	Bắt buộc	3	3	0	HT: CM202IU- Construction Measurement and Cost Estimating
HK hệ (3 tín chỉ)	CM306IU	Internship	Thực tập tốt nghiệp	Bắt buộc	3	0	3	HT: CM303IU - Construction Planning and Scheduling, CM305IU - Construction Cost Management
HK VII (16 tín chỉ)	BA161IU	Business Research Methods	Phương pháp nghiên cứu	Bắt buộc	3	3	0	
	CM_---	CM Elective 1 (list A)	Môn tự chọn CM 1(list A)	Tự chọn	3	3	0	
	CM_---	CM Elective 2 (list A)	Môn tự chọn CM 2 (list A)	Tự chọn	3	3	0	
	CM_---	CM Elective 3 (list A)	Môn tự chọn CM 3 (list A)	Tự chọn	3	3	0	
	CM_---	CM Elective 4 (list B)	Môn tự chọn CM 4 (list B)	Tự chọn	1	0	1	
	CM302IU	Construction Procurement and Tendering	Đấu thầu và mua sắm	Bắt buộc	3	3	0	HT: CM202IU- Construction Measurement and Cost Estimating
HK VIII (15 tín chỉ)	---IU	IU Elective 1 (list C)	Môn tự chọn IU 1 (list C)	Tự chọn	3			
	---IU	IU Elective 2 (list C)	Môn tự chọn IU 2 (list C)	Tự chọn	3			
	CM311IU	Construction project management (PMBOK extension)	Quản lý dự án xây dựng (phần mở rộng PMBOK)	Bắt buộc	3	3	0	HT: CM303IU - Construction Planning and Scheduling, CM305IU - Construction Cost Management

Sinh viên tự chọn 1 trong 2 hướng chuyên ngành	Chuyên ngành Quản lý dự án xây dựng							
	CM402IU	Construction Jobsite Management	Quản lý thi công công trường	Bắt buộc	3	3	0	
	CM404IU	Contract Management – FIDIC contracts	Quản lý hợp đồng – Hợp đồng FIDIC	Bắt buộc	3	3	0	HT: CM302IU - Construction Procurement and Tendering
	Chuyên ngành Quản lý xây dựng							
	CM403IU	Value Engineering	Kỹ thuật giá trị		3	3	0	HT: CM305IU - Construction Cost Management
HK IX (13 tín chỉ)	CE311IU	Construction Engineering	Kỹ thuật thi công		3	3	0	HT: CE304IU - Reinforced Concrete 1
	BA098IU	Leadership	Lãnh đạo	Bắt buộc	3	3	0	
	CM420IU	Graduation Thesis	Luận văn tốt nghiệp	Bắt buộc	10	0	10	HT: Tích lũy ít nhất 120 tín chỉ, CM306IU – Internship, BA161IU - Business Research Methods

Nhóm tự chọn chuyên ngành (nhóm 1)

Mã môn học	Tên môn học	Số tín chỉ
CM405IU	Quản lý thông tin dự án Project communication Management	3
CM406IU	Quản lý chất lượng thi công Construction Quality Management	3
CM407IU	Quản lý tích hợp dự án Project Integration Management	3
CM408IU	Quản lý tài chính trong xây dựng Construction Financial Management	3

CM403IU	Kỹ thuật giá trị Value Engineering	3
CE311IU	Kỹ thuật thi công Construction Engineering	3
CM404IU	Quản lý hợp đồng – Các loại hợp đồng FIDIC Contract Management – FIDIC contracts	3
BA006IU	Thông tin kinh doanh Business Communications	3
BA016IU	Quản lý tài chính cơ bản Fundamental of Financial Management	3
BA018IU	Quản lý chất lượng Quality Management	3
BA115IU	Nhập môn quản trị kinh doanh Introduction to Business Administration	3
CE412IU	Trí tuệ nhân tạo nâng cao trong Kỹ thuật và Quản lý Xây dựng Advanced Artificial Intelligence in Civil Engineering and Construction Management	3
CE310IU	Bê tông cốt thép 2 Reinforced Concrete 2	3
CE407IU	Nhà nhiều tầng Tall Buildings	3
CE415IU	Sustainable Construction Xây dựng bền vững	3

Nhóm tự chọn chuyên ngành (Nhóm 2)

Mã môn học	Tên môn học	Số tín chỉ
CE403IU	Đồ án kỹ thuật thi công Construction Project	1
CM401IU	Đồ án lập và thẩm định dự án đầu tư Feasibility Study and Appraisal Project	1

Nhóm tự chọn tự do (Nhóm 3)

Mã môn học	Tên môn học	Số tín chỉ
BA130IU	Hành vi tổ chức Organizational Behavior	3
BA120IU	Kỹ năng vi tính kinh doanh Business Computing Skills	3
BA005IU	Kế toán tài chính Financial Accounting	3

11. Ma trận các môn học và chuẩn đầu ra (kỹ năng)

Mức độ đóng góp của các môn học vào chuẩn đầu ra của CTĐT ngành Quản lý Xây dựng được trình bày như Bảng 8.

Bảng 8. Đóng góp của các môn học vào CDR của CTĐT

Học kỳ	Tên môn học	PLO 01	PLO 02	PLO 03	PLO 04	PLO 05	PLO 06	PLO 07	PLO 08	PLO 09	PLO 10
HK I	Triết học Mác-Lênin	M									
	Toán 1	M									
	Vật lý 1	M									
	Giáo dục thể chất 1	L									
	Tiếng Anh chuyên ngành 1 (Kỹ năng viết)								M	M	
	Tiếng Anh chuyên ngành 1 (Kỹ năng nghe)								M	M	
	Pháp luật đại cương	M					M			M	
HK II	Chủ nghĩa xã hội khoa học	M									
	Toán 2	M									
	Đạo đức nghề nghiệp và tư duy phản biện	M					M	M		M	
	Giáo dục thể chất 2	L									
	Tiếng Anh chuyên ngành 2 (Kỹ năng viết)								M	M	
	Tiếng Anh chuyên ngành 2 (Kỹ năng nghe)								M	M	
	Nhập môn Quản lý Xây dựng	L	L			L			L		
	Cơ kỹ thuật và sức bền vật liệu	M		M							
HK III	Phân tích kết cấu 1	M		M							
	Vẽ kỹ thuật	M						M			
	Thực hành vẽ kỹ thuật	M						M			
	Quản lý vận hành trong xây dựng		M	M		M					
	Đồ án quản lý xây dựng	M	M			L			L		
	Kinh tế chính trị Mác- Lênin	M	M								
	Vật liệu xây dựng	M		M							

	Kinh tế Xây dựng		M	M		M	M				
HK IV	Cơ học đất và nền móng	M		M			M				
	Kết cấu thép	M		M			M				
	Kết cấu bê tông cốt thép 1	M		M			M				
	Đo bóc khối lượng và ước tính chi phí xây dựng		M	M		M	M				
	Trắc địa	M									
	Nguyên lý Marketing	M									
HK hè	Giáo dục Quốc phòng	M									
HK V	Hệ thống quản lý thông tin công trình		M	M		M	M				
	Hoạch định và tiến độ xây dựng		M	H		M	M				
	Phân tích định lượng trong kinh doanh		M	H		M					
	Đồ án đo bóc khối lượng và ước tính chi phí xây dựng		M	M		M	M				
	Quản lý rủi ro			M		M					
	Lịch sử Đảng Cộng sản Việt Nam	M									
	Quản lý nhân sự	M						M			
HK VI	Lập và thẩm định dự án đầu tư xây dựng		M	M	H		M				
	Đồ án hệ thống quản lý thông tin công trình		M	H		M	M				
	Thống kê kinh doanh	M			M		M				M
	Trí tuệ nhân tạo trong Kỹ thuật và Quản lý Xây dựng		H	M	M	M					M
	Đồ án hoạch định và tiến độ xây dựng		M	H		M	M				
	Tư tưởng Hồ Chí Minh	M								M	
	Quản lý chi phí xây dựng		M	H		M	M				
HK hè	Thực tập tốt nghiệp		M	H		H	M	M	H	M	
HK VII	Phương pháp nghiên cứu		M	M	M		H				M
	Môn tự chọn CM 1(list A)		M			H					
	Môn tự chọn CM 2 (list A)		M			H					
	Môn tự chọn CM 3		M			H					

	(list A)										
	Môn tự chọn CM 4 (list B)		M			H					
	Đấu thầu và mua sắm			M		M		M			
HK VIII	Môn tự chọn IU 1 (list C)		M								
	Môn tự chọn IU 2 (list C)		M								
	Quản lý dự án xây dựng (phần mở rộng PMBOK)	M	H			M			M	M	
	Chuyên ngành Quản lý dự án xây dựng										
	Quản lý thi công công trường		M			M	M				
	Quản lý hợp đồng – Hợp đồng FIDIC		M			M					
	Chuyên ngành Quản lý xây dựng										
	Kỹ thuật giá trị		M			M					
	Kỹ thuật thi công		M			M					
HK IX	Lãnh đạo		M								
	Luận văn tốt nghiệp	M	H	H	M	H	M	M	M		M

12. Mô tả vắn tắt nội dung và khối lượng các môn học

12.1. Triết học Mác-Lênin (Philosophy of Marxism and Leninism)

Mã môn học: PE015IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học song hành: PE016IU - Political economics of Marxism and Leninism, PE017IU - Scientific Socialism

Mô tả nội dung môn học: The course provide basic content about the worldview and methodology of Marxism-Leninism.

12.2. Kinh tế chính trị Mác-Lênin (Political economics of Marxism and Leninism)

Mã môn học: PE016IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: PE015IU - Philosophy of Marxism and Leninism.

Mô tả vắn tắt nội dung: The course equips students with core contents of Marxist Leninist Political Economy, including: Commodities, markets and the role of subjects in the market economy; produce surplus value in a market economy; competition and monopoly in the market economy; socialist-oriented market economy and economic interest relationships in Vietnam; industrialization, modernization and international economic integration in Vietnam.

12.3. Chủ nghĩa xã hội khoa học (Scientific Socialism)

Mã môn học: PE017IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: PE015IU - Philosophy of Marxism and Leninism

Mô tả nội dung môn học: The main content of the course is to provide students with a basic systematic understanding of scientific socialism.

12.4. Tư tưởng Hồ Chí Minh (Ho Chi Minh's Thoughts)

Mã môn học: PE019IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: PE015IU - Philosophy of Marxism and Leninism, PE016IU - Political economics of Marxism and Leninism, PE017IU - Scientific Socialism.

Mô tả nội dung môn học: The course equips students with basic knowledge about: Subjects, research methods and the meaning of studying Ho Chi Minh's ideology; about the basis, process of formation and development of Ho Chi Minh's ideology; about national independence and socialism; about the Communist Party and State of Vietnam; about great national unity and international solidarity; about culture, ethics, and people.

12.5. Lịch sử Đảng Cộng Sản Việt Nam (History of Vietnamese Communist Party)

Mã môn học: PE018IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: PE015IU - Philosophy of Marxism and Leninism, PE016IU - Political economics of Marxism and Leninism, PE017IU - Scientific Socialism.

Mô tả nội dung môn học: Provides systematic and basic knowledge about the birth of the Communist Party of Vietnam (1920-1930), the Party's leadership of the Vietnamese revolution during the period of struggle for power (1930-1930). 1945), in the two civil wars against the French colonialists and the American imperialist invaders (1945-1975), in the cause of building and defending the fatherland during the country's transition to socialism, carrying out the innovation (1975-2018).

12.6. Toán 1 (Calculus 1)

Mã môn học: MA001IU

Số tín chỉ: 4 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: Functions, Limits, Continuity, Derivatives, Derivatives for basic functions, Rules for calculating derivatives, Applications of derivatives, L'hospital Rule, Optimization, Methods Newton's method, Integral integration, Definite integrals, Basic theorems of analysis, techniques for calculating integrals.

12.7. Toán 2 (Calculus 2)

Mã môn học: MA003IU

Số tín chỉ: 4 lý thuyết

Điều kiện: Môn học trước: MA001IU – Calculus 1

Mô tả nội dung môn học: Sequences and strings; Check for convergence; Hat chain; Taylor and Maclaurin series; Cartesian coordinate system; Lines, Faces and Planes; Derivative and integral of Vector functions; Curve length; Parametric plane; Contact surface; Vector Gradient; Extreme; Lagrange Multiplier; Multiple integration: two-layer integration, three-layer integration, techniques for calculating integration; Vector field, line integral, surface integral.

12.8. Vật lý 1 (Physics 1)

Mã môn học: PH013IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: Không

Mô tả nội dung môn học: Investigation of kinematics, dynamics, and energetics of the motion of points and solid objects.

12.9. Thống kê kinh doanh (Statistics for Business)

Mã môn học: BA080IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: Không

Mô tả nội dung môn học: This course helps students cover most of the theories and applications of Statistics in Business and Economics.

12.10. Pháp luật đại cương (General Law)

Mã môn học: PE021IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course provides students with general knowledge, basic concepts, principles, and main legal branches that serve the foundation of the Vietnamese legal system. Throughout the course, students will also be introduced to legal language; engage in critical thinking; and exposure to legal reasoning and problem-solving skills to develop students' abilities, applying them to real-life situations.

12.11. Kinh tế xây dựng (Construction economics)

Mã môn học: CM309IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course aims to provide students with general knowledge of micro and macro economics including: market operating mechanism, supply and demand theory, market structure of the construction industry,

macroeconomic goals, state policy tools, inflation. The impact of micro and macro economics on the construction industry is also covered in this subject.

12.12. Nguyên lý marketing (Principles of Marketing)

Mã môn học: BA003IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: The course is an introduction to the language and issues of marketing with a focus on learning how to develop marketing strategies that meet customer needs. The course focuses on basic marketing concepts, the role of marketing in organizations, and the role of marketing in society. Topics include market segmentation, product development, promotion, distribution, and pricing. Other topics, which will be included in the course, include the impact of the external environment (economic, political, governmental and natural), marketing research, marketing information. International/global marketing deals with cultural diversity, ethics, impact of technology on marketing.

12.13. Tiếng Anh chuyên ngành 1 - kỹ năng viết (Writing AE1)

Mã môn học: EN007IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: The course aims to improve writing skills at the pre-advanced level. The program focuses on building essays based on writing skills such as: making an outline, writing a thesis statement, connecting and arranging the order of paragraphs, words and connecting phrases to create coherence for the essay. literature. Genres include: describing people, objects, processes, presenting opinions, comparing and contrasting, cause - effect, stating problems - solutions, argumentative.

12.14. Tiếng Anh chuyên ngành 1 - kỹ năng nghe (Listening AE1)

Mã môn học: EN008IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: Academic English listening, note-taking, and discussion skills will help students become familiar with the difficulties of learning English at university. Students will learn essential skills for international university students, including: actively listening to lectures, taking effective notes, and participating in discussions confidently. Along with listening skills, students will also improve their academic vocabulary.

12.15. Tiếng Anh chuyên ngành 2 - kỹ năng viết (Writing AE2)

Mã môn học: EN011IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: tiếng Anh chuyên ngành 1 (kỹ năng viết) (Writing AE1)

Mô tả nội dung môn học: The course aims to provide an overview of the structure of a research report, step by step helping students complete a specific article in their field. The content of the course includes: components of a report, skills in choosing and limiting topics, writing thesis statements, making outlines, finding and citing documents, taking notes, writing introductions, and content. main and conclusion, writing and editing drafts. Students will practice on topics related to their subjects.

12.16. Tiếng Anh chuyên ngành 2 - kỹ năng nói (Speaking AE2)

Mã môn học: EN012IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: tiếng Anh chuyên ngành 1 (kỹ năng nghe) (Listening AE1)

Mô tả nội dung môn học: The course provides students with practical strategies to use in presentations. In addition, students are helped to develop listening skills, comment and give feedback to other presentations in class.

12.17. Cơ kỹ thuật và sức bền vật liệu (Engineering Mechanics and Mechanics of Materials)

Mã môn học: CE105IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: Classification of force systems and combined forces; geometrical and analytical conditions for the balance of force systems, frames and trusses; friction, center of gravity, distributed load, moment of inertia, diagram of internal.

12.18. Cơ kỹ thuật và sức bền vật liệu (Engineering Mechanics and Mechanics of Materials)

Mã môn học: CE105IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: Classification of force systems and combined forces; geometrical and analytical conditions for the balance of force systems, frames and trusses; friction, center of gravity, distributed load, moment of inertia, diagram of internal forces in beams.

12.19. Vật liệu xây dựng (Construction Materials)

Mã môn học: CE210IU

Điều kiện: Môn học trước: CE105IU - Engineering Mechanics and Mechanics of Materials

Mô tả nội dung môn học: Basic concepts and properties of construction materials. Chemical, physical properties and mechanical and non-mechanical behavior of construction materials; Methods of design and distribution of materials for Portland cement concrete, mortar, aggregate, and asphalt concrete.

12.20. Vẽ kỹ thuật (Computer Aided Design and Drafting)**Mã môn học:** CE103IU**Số tín chỉ:** 3 lý thuyết**Điều kiện:** Môn học song hành: CE104IU - ComputerAided Design and Drafting Practice**Mô tả nội dung môn học:** Principles of computer-aided design drawing; graphic entities, fill patterns, layers, file creation, and information extraction. 2D drafting and drawing using CADD system. Introduction to 3D simulation and surface rotation. CADD application in construction engineering.**12.21. Thực hành vẽ kỹ thuật (Computer Aided Design and Drafting Practice)****Mã môn học:** CE104IU**Số tín chỉ:** 1 thực hành**Điều kiện:** Môn học song hành: CE103IU - ComputerAided Design and Drafting**Mô tả nội dung môn học:** Principles of computer-aided design drawing; graphic entities, fill patterns, layers, file creation, and information extraction. 2D drafting and drawing using CADD system. Introduction to 3D simulation and surface rotation. CADD application in construction engineering.**12.22. Cơ học đất và nền móng (Soil Mechanics and foundation)****Mã môn học:** CE106IU**Số tín chỉ:** 3 lý thuyết**Điều kiện:** Môn học trước: Không**Mô tả nội dung môn học:** The course provides students with knowledge about the mechanical characteristics of soil including: stress in soil; Compaction, consolidation and settlement properties; shear resistance; horizontal earth pressure; slope stability; and bearing capacity. The course also provides basic concepts of foundation analysis and design.**12.23. Phân tích kết cấu 1 (Structural Analysis 1)****Mã môn học:** CE209IU**Số tín chỉ:** 2 lý thuyết**Điều kiện:** Môn học trước: CE105IU - Engineering Mechanics and Mechanics of Materials**Mô tả nội dung môn học:** Analysis of static structures such as trusses, frames, cables and arches. Calculate the deflection of the truss and flat frame. Influence lines of beams and trusses. Introduction to hyperstatic structures.**12.24. Kết cấu bê tông cốt thép 1 (Reinforced Concrete 1)****Mã môn học:** CE304IU**Số tín chỉ:** 3 lý thuyết**Điều kiện:** Môn học trước: CE209IU - Structural Analysis 1

Mô tả nội dung môn học: Research on behavior and design of reinforced concrete structures according to the requirements of ACI Standards for beams, floors, columns, frames and foundations.

12.25. Kết cấu thép (Steel Structures)

Mã môn học: CE305IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CE209IU - Structural Analysis 1

Mô tả nội dung môn học: The course introduces the method of steel structure design based on the principle of load and bearing capacity factor design (LRFD). The course presents basic topics related to tension members, columns, beams, beam-column, and simple connections.

12.26. Trắc địa (Surveying)

Mã môn học: CE307IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: Concept of topographic maps; Accuracy of map scale; How to represent terrain and terrain. Errors in surveying and measurement values. Tools and methods for measuring angles, lengths, and heights. Coordinate grid: Elevation grid; Correction method. Measuring, drawing and using maps and terrain sections: detailed measurement methods using electronic total stations. Project layout: Prepare data; Switch angles and lengths; Mark moving; Conversion of elevation and plane; Transfer the curve to the scene. Introduction to Remote Sensing and GPS geographic information system.

12.27. Quản lý Xây dựng nhập môn (Introduction to Construction Management)

Mã môn học: CM205IU

Số tín chỉ: 2 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: The course provides students with basic knowledge of construction management. Coverage includes an introduction to the construction industry, basic functions of construction management, scheduling techniques, cost estimating, contract management, equipment management, quality and productivity, productivity, and labor safety management.

12.28. Đồ án quản lý xây dựng (Construction Management Project)

Mã môn học: CM203IU

Số tín chỉ: 1 thực hành

Điều kiện: Môn học trước: CM205IU - Introduction to Construction Management

Mô tả nội dung môn học: The course helps students apply basic knowledge of construction management. Coverage includes an introduction to the construction industry, basic functions of construction management, scheduling techniques, cost estimating,

contract management, equipment management, quality and productivity. productivity, and labor safety management.

12.29. Phân tích định lượng trong kinh doanh (Quantitative method for business)

Mã môn học: BA168IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course provides the quantitative tools needed to analyze and model problems in decision making. The course includes many tools: game theory, risk analysis techniques, linear planning, goal planning, multi-criteria decision making techniques, hierarchical analysis, networks, ranking theory products and simulations.

12.30. Quản lý nhân sự (Human Resource Management)

Mã môn học: BA156IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: The examination course mainly covers the theory and practice of human resource management. It aims to provide an overview of the HR department, both strategic and day-to-day, to enable the business to have the right people in place for smooth operations in the short and long term. The main topics of the research include: strategic human resource environment; human resources and organization; enhance motivation and performance; workforce compensation and rewards; and career management and work environment and labor relations. In general, the course presents students with standard human resources management procedures and some best practices for performing tasks effectively.

12.31. Quản lý vận hành trong xây dựng (Operation Management in Construction)

Mã môn học: CM301IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CM205IU - Introduction to Construction Management.

Mô tả nội dung môn học: The course is designed to provide students with knowledge related to the management and operation of construction projects. Students will understand construction site organization, plan contract signing, and conduct research on work norms. Students are also equipped with knowledge about labor safety, waste management, materials and warehousing, supply chain, and quality on construction sites.

12.32. Lập và thẩm định dự án xây dựng (Project Feasibility Study and Appraisal)

Mã môn học: CM308IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CM303IU Construction Planning and Scheduling

Mô tả nội dung môn học: This course is designed to provide students knowledge about construction project feasibility study and appraisal. Characteristics of projects including attributes, perspectives, phases, problems of cost and utility, needs and objectives, technical design, financial and economic analysis... are introduced. Students are also provided tools and techniques including systems, SWOT, strategy, risk ... analyses to evaluation the feasibility of construction projects.

12.33. Quản lý rủi ro (Risk Management)

Mã môn học: BA171IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course is a study of the risk management process, focusing on insurance. The course provides learners with essential knowledge of key concepts and terms used particularly in the Insurance and Risk Management industry. Learners will learn methods and techniques that can be used to deal with different types of risks. Policies including Life Insurance and Property and Accident Insurance are analyzed. Learners will have a deeper understanding of Life Insurance, Health Insurance, Social Insurance, Property Insurance, Auto Insurance, etc. The course also covers Risk Management work and functions. their skills at the company, can create opportunities for some learners in choosing their future career.

12.34. Quản lý dự án xây dựng (phần mở rộng PMBOK) (Construction project management (PMBOK extension))

Mã môn học: CM311IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học tiên quyết: không. Môn học trước: CM305IU - Construction Cost Management và CM303IU - Construction Planning and Scheduling

Mô tả nội dung môn học: This course provides general knowledge about construction project management including issues: integrated management, goal management, progress management, cost management, quality management...

12.35. Đo bóc khối lượng và ước tính chi phí xây dựng (Construction Measurement and Cost Estimating)

Mã môn học: CM202IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CE210IU - Construction Materials, CM205IU - Introduction to Construction Management. Môn học song hành: CE304IU - Reinforced Concrete 1

Mô tả nội dung môn học: The course provides students with basic knowledge about measuring, calculating volumes and estimating costs of construction work. The quantities are used to estimate costs and develop contract documents and procurement and bidding plans

12.36. Hoạch định và tiến độ xây dựng (Construction Planning and Scheduling)**Mã môn học:** CM303IU**Số tín chỉ:** 3 lý thuyết**Điều kiện:** Môn học trước: CM202IU - Construction Measurement and Cost Estimating**Mô tả nội dung môn học:** The course is designed to help students apply knowledge related to progress management of construction projects learned in the subject Construction planning and progress.**12.37. Đồ án hoạch định và tiến độ xây dựng (Construction Planning and Scheduling Project)****Mã môn học:** CM307IU**Số tín chỉ:** 1 thực hành**Điều kiện:** Môn học trước: CM303IU - Construction Planning and Scheduling**Mô tả nội dung môn học:** The course is designed to help students apply knowledge related to progress management of construction projects learned in the subject Construction planning and progress.**12.38. Đồ án đo bóc khối lượng và ước tính chi phí xây dựng (Construction Measurement and Cost Estimating Project)****Mã môn học:** CM304IU**Số tín chỉ:** 1 thực hành**Điều kiện:** Môn học trước: CM202IU - Construction Measurement and Cost Estimating**Mô tả nội dung môn học:** The course helps students apply basic knowledge of measuring, calculating quantities and estimating costs of construction work that have been learned in the subject Quantity Measurement and Construction. Estimated construction costs. The quantities are used to estimate costs and develop contract documents and procurement and bidding plans.**12.39. Quản lý chi phí xây dựng (Construction Cost Management)****Mã môn học:** CM305IU**Số tín chỉ:** 3 lý thuyết**Điều kiện:** Môn học trước: CM202IU - Construction Measurement and Cost Estimating.**Mô tả nội dung môn học:** The course is designed to provide students with knowledge related to cost management of construction projects. Manage implementation costs from the prebid, bidding, contract signing, and post-bid stages to ensure project budget according to the scale and quality of the project.**12.40. Đấu thầu và mua sắm (Construction Procurement and Tendering)****Mã môn học:** CM302IU**Số tín chỉ:** 3 lý thuyết**Điều kiện:** Môn học trước: CM202IU - Construction Measurement and Cost Estimating

Mô tả nội dung môn học: The course is designed to provide students with knowledge related to bidding and procurement methods in construction projects. Students will master the advantages and disadvantages, processes and scope of application of different bidding and procurement methods. The process of preparing and conducting bidding and procurement is also introduced in the course.

12.41. Hệ thống quản lý thông tin công trình (Building Information Management)

Mã môn học: CM310IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course provides students with basic knowledge of the Construction Information Management System and its applications in the construction industry corresponding to each subject of activity (main topic). private sector, consulting, contractor, ...) in the construction industry.

12.42. Quản lý thi công công trường (Construction Jobsite Management)

Mã môn học: CM402IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course provides students with knowledge about the roles, responsibilities, and rights of parties involved in construction projects. Students will also study how to manage participants, materials and equipment, labor safety, waste, and the environment . Design, layout, and control of construction site premises are also the content of this subject.

12.43. Quản lý hợp đồng – Hợp đồng FIDIC (Contract Management – FIDIC contracts)

Mã môn học: CM404IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CM302IU – Construction Procurement and Tendering

Mô tả nội dung môn học: This course provides students with knowledge about construction contract management, FIDIC contracts and related issues.

12.44. Đồ án lập và thẩm định dự án đầu tư (Feasibility study and appraisal project)

Mã môn học: CM401IU

Số tín chỉ: 1 thực hành

Điều kiện: Môn học trước: CM308IU - Project Feasibility Study and Appraisal

Mô tả nội dung môn học: The course is designed to help students apply the knowledge they have learned in the course Establishing and appraising investment projects to create an

investment project including the following contents: needs, Objectives, scale, legal, technical, total investment, finance, economics, environment.

12.45. Đồ án hệ thống quản lý thông tin công trình (Building Information Management Project)

Mã môn học: CM312IU

Số tín chỉ: 1 thực hành

Điều kiện: Môn học trước: CM310IU - Building Information Management.

Mô tả nội dung môn học: The course is designed to provide necessary skills for students on how to build information models for a real project. Based on the knowledge and skills they have learned, students understand the applicability of BIM models in the construction industry.

12.46. Trí tuệ nhân tạo trong Kỹ thuật và Quản lý Xây dựng (Artificial Intelligence in Civil Engineering and Construction Management)

Mã môn học: CE217IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: Không

Mô tả nội dung môn học: The course is designed to help students understand how to apply artificial intelligence in construction techniques and construction management. Some typical problems of artificial intelligence applied in CE and CM are introduced including regression, classification, segmentation, anomaly detection in experimental data, monitoring data, etc.

12.47. Kỹ thuật giá trị (Value Engineering)

Mã môn học: CM403IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CM305IU - Construction Cost Management

Mô tả nội dung môn học: The course is designed to provide students with valuable technical knowledge. Value engineering is a process that identifies opportunities to eliminate unnecessary costs while still ensuring quality, reliability, productivity and other factors that customers expect.

12.48. Kỹ thuật thi công (Construction Engineering)

Mã môn học: CE311IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CE304IU - Reinforced Concrete 1

Mô tả nội dung môn học: The course introduces basic concepts of construction works, including earthworks, foundation construction, construction of wood structures, concrete, brick, stone and steel.

12.49. Đồ án kỹ thuật thi công (Construction Project)

Mã môn học: CE403IU

Số tín chỉ: 1 thực hành

Điều kiện: Môn học tiên quyết: không. Môn học trước: CE311IU - Construction Engineering

Mô tả nội dung môn học: The course is designed to help students apply the knowledge they have learned in Construction Engineering to create construction methods including design of formwork, columns, beams, floors, and construction piles and set construction site progress.

12.50. Lãnh đạo (Leadership)

Mã môn học: BA098IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course prepares students for leadership roles in their communities and professions. It will provide students with the knowledge, skills and requirements to become an effective leader. Students will understand the factors for successful leadership. Students will also grasp the theory and practical applications to succeed in both their personal and professional lives.

12.51. Quản lý thông tin dự án (Project communication Management)

Mã môn học: CM405IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: Không

Mô tả nội dung môn học: This course provides students with knowledge about project information management and project-related documents.

12.52. Quản lý chất lượng công trình xây dựng (Construction quality management)

Mã môn học: CM406IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: Không

Mô tả nội dung môn học: This course provides students with theories on quality management and planning for quality assurance and quality control. Requirements and notes for ensuring and controlling construction quality are also mentioned in this subject.

12.53. Quản lý tích hợp dự án (Project Integration management)

Mã môn học: CM407IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: Không

Mô tả nội dung môn học: This course provides students with knowledge about integrated management throughout the project life cycle.

12.54. Quản lý tài chính dự án (Construction financial management)

Mã môn học: CM408IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CM305IU – Construction Cost Management

Mô tả nội dung môn học: This course provides students with general knowledge of project financial management including concepts of financial indicators, debt-to-equity ratio, equity ownership, assets, revenue, profits, etc. Students are also provided with management knowledge related to costs, cash flow and tools to support financial decision making.

12.55. Giao tiếp kinh doanh (Business Communication)

Mã môn học: BA006IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course provides students with a comprehensive view of communication, its scope and importance in business and the role of communication in establishing favorable external environments. solid environment, as well as an effective internal communications program. Types of business media covered. This course also develops awareness of the importance of succinct written expression for modern business communication.

12.56. Quản lý tài chính cơ bản (Fundamental of Financial Management)

Mã môn học: BA016IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: The purpose of this course is for students to access and become familiar with the theoretical frameworks and practical issues of financial management. Course content includes: introduction to financial management; time value of money; techniques for pricing financial instruments such as bonds and stocks; evaluate major projects; the relationship between risk and return; introduction to the Capital Asset Pricing Model (CAPM) and portfolio theory; and cost of capital and capital structure.

12.57. Quản lý tài chính cơ bản (Fundamental of Financial Management)

Mã môn học: BA016IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: The purpose of this course is for students to access and become familiar with the theoretical frameworks and practical issues of financial management. Course content includes: introduction to financial management; time value of money; techniques for pricing financial instruments such as bonds and stocks; evaluate major projects; the relationship between risk and return; introduction to the Capital Asset Pricing Model (CAPM) and portfolio theory; and cost of capital and capital structure.

12.58. Quản lý chất lượng (Quality Management)

Mã môn học: BA018IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course introduces quality management principles, focusing on cross-functional problem solving; provides a basic understanding of the philosophy, conceptual framework and tools of Total Quality Management.

12.59. Trí tuệ nhân tạo nâng cao trong Kỹ thuật và Quản lý Xây dựng (Advanced Artificial Intelligence in Civil Engineering and Construction Management)

Mã môn học: CE412IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CE217IU - Artificial Intelligence in Civil Engineering and Construction Management

Mô tả nội dung môn học: This course provides students with advanced knowledge of machine learning (ML) and analytics tools along with their applications in engineering and construction management. The course will emphasize 1) traditional supervised algorithms such as support vector machines, 2) machine learning algorithms including bagging and boosting, 3) deep learning algorithms, 4) fundamentals of tools used for large-scale data processing and 5) tools used for processing ML algorithms.

12.60. Dẫn nhập quản trị kinh doanh (Introduction to Business Administration)

Mã môn học: BA115IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: Course objective introduces students to the complex and multidimensional aspects of business. The subject helps students become familiar with the knowledge of core content: Marketing, management, human resources. The subject also aims to enhance students' understanding of international issues.

12.61. Hành vi tổ chức (Organizational Behavior)

Mã môn học: BA130IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course examines theories and how they are applied and why organizations and businesses behave the way they do. In addition, the course analyzes the factors that cause specific behaviors in an organization, and presents related conceptual support diagrams to show how behaviors influence decision making and How effective is the organization? Key topics include: Individual and organizational dynamics, communication management, social systems and organizational culture, compensation, leadership and empowerment, attitudes and consequences, individual and group behavior, team building, change management, stress and stress reduction consulting.

12.62. Kế toán tài chính (Financial Accounting)

Mã môn học: BA005IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course provides students with basic principles of financial accounting systems and issues related to the management of corporate financial accounting systems.

12.63. Phương pháp nghiên cứu (Business Research Methods)

Mã môn học: BA161IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: BA080IU - Statistics for Business

Mô tả nội dung môn học: This course covers important topics related to research methods. It introduces the entire research process, from formulating research questions to research design and ending with writing the report. The course content emphasizes two main approaches to research design: qualitative and quantitative, it also provides techniques for data collection methods, instrumentation and measurement design, and screening. , prepare and analyze data. The course also addresses ethical issues in research.

12.64. Bê tông cốt thép 2 (Reinforced Concrete 2)

Mã môn học: CE310IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: CE304IU - Reinforced Concrete 1

Mô tả nội dung môn học: Analysis and design of prestressed concrete members; beam; slabs. Analysis and design of composite slabs. Current building code and standards are referred to extensively in this course.

12.65. Nhà nhiều tầng (Tall Building)

Mã môn học: CE407IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: The course aims at the development of ability for design of high- rise buildings. It offers the student with an opportunity to gain real life design experience, and to develop the ability to identify and solve civil engineering problems in a feasible and creative way, and to apply design procedures, codes of practice and computer software to design conventional steel and concrete high-rise buildings.

12.66. Xây dựng bền vững (Sustainable Construction)

Mã môn học: CE415IU

Số tín chỉ: 3 lý thuyết

Điều kiện: Môn học trước: không

Mô tả nội dung môn học: This course provides students with knowledge of green building, including green building fundamentals, green building assessment, green building design, and green building implementation.

12.67. Thực tập (Internship)

Mã môn học: CM306IU

Số tín chỉ: 3 thực hành

Điều kiện: Môn học trước: CM303IU - Construction Planning and Scheduling, CM305IU - Construction Cost Management.

Mô tả nội dung môn học: Internships provide students with the opportunity to practically apply the knowledge gained during their studies. Students will intern at foreign construction companies, state enterprises or agencies, and private business sectors. Students work under the supervision of the internship unit and IU faculty. The role of the supervisor at the company is to supervise and advise students throughout the internship period. Supervisors and mentors will complete a performance evaluation form at the conclusion of the internship. Students will present their internship experiences through weekly reports and one-on-one discussions.

12.68. Luận văn tốt nghiệp (Graduation Thesis)

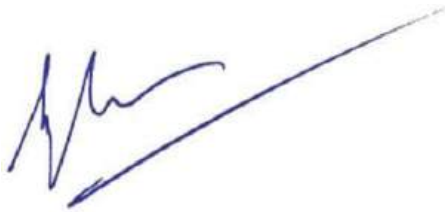
Mã môn học: CM420IU

Số tín chỉ: 10 thực hành

Điều kiện: Môn học trước: Tích lũy ít nhất 120 tín chỉ, CM306IU – Internship, BA161IU - Business Research Methods

Mô tả nội dung môn học: In the thesis, students design construction methods, draft related documents including: bidding documents, technical instructions, contracts for foundation components, columns, beams, floors, total plan, etc. Students can also apply the knowledge they have learned to carry out research topics related to construction management.

TRƯỜNG KHOA



Nguyễn Hoài Nghĩa

**KT. HIỆU TRƯỞNG
PHÓ HIỆU TRƯỞNG**

Đinh Đức Anh Vũ

Phụ lục 1
NỘI DUNG ĐIỀU CHỈNH
CHƯƠNG TRÌNH ĐÀO TẠO NGÀNH QUẢN LÝ XÂY DỰNG KHÓA 2025
SO VỚI KHÓA 2024

*(Kèm theo Quyết định số /QĐ-ĐHQT ngày tháng năm 2025
của Hiệu trưởng Trường Đại học Quốc tế)*

1. Các môn học loại bỏ khỏi chương trình đào tạo

Không có môn loại bỏ

2. Các môn học bổ sung vào chương trình đào tạo

Không có môn bổ sung mới

3. Các điều chỉnh khác

STT	Nội dung thay đổi	Cập nhật mới	Lý do thay đổi
1	Thay đổi kế hoạch đào tạo	Bỏ 2 tuần kiểm tra giữa kỳ, kết hợp kiểm tra giữa kỳ vào tuần thứ 8 của lịch trình giảng dạy	Rút ngắn thời gian đào tạo để tăng thời lượng của học kỳ hè
2	Sắp xếp lại kế hoạch đào tạo để phù hợp với lộ trình đào tạo của nhóm ngành kỹ thuật	Sắp xếp lại kế hoạch đào tạo của chương trình đào tạo khóa 2025 trở về sau	Phù hợp với phương thức đào tạo nhóm ngành kỹ thuật
3	Điều chỉnh phân bổ CLO, phương pháp giảng dạy và nội dung kiểm tra - đánh giá môn học CE302IU Soil Mechanics	Đề cương môn CE302IU Soil Mechanics cập nhật	Để đảm bảo kế hoạch cải tiến chất lượng đào tạo.
4	Cập nhật tài liệu tham khảo, cập nhật các ràng buộc của một số môn học thuộc chương trình Quản lý Xây dựng.	Cập nhật tài liệu tham khảo, cập nhật các ràng buộc của một số môn học thuộc chương trình Quản lý Xây dựng.	Cập nhật giáo trình, tài liệu tham khảo mới và đảm bảo tiến độ học tập cho sinh viên.

4. **Hướng xử lý cho các sinh viên khóa cũ khi chưa học các môn học bị loại bỏ khỏi chương trình đào tạo**
Không có.

ĐẠI HỌC QUỐC GIA
THÀNH PHỐ HỒ CHÍ MINH
TRƯỜNG ĐẠI HỌC QUỐC TẾ

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM
Độc lập – Tự do – Hạnh phúc

Phụ lục 2
ĐỀ CƯƠNG CHI TIẾT CÁC MÔN HỌC

*(Kèm theo Quyết định số /QĐ-ĐHQT ngày tháng năm 2025
của Hiệu trưởng Trường Đại học Quốc tế)*

(Sắp xếp đề cương theo đúng thứ tự môn học theo Bảng 6 - Các môn thuộc CTĐT)

ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH
KHOA CHÍNH TRỊ - HÀNH CHÍNH

ĐỀ CƯƠNG CHI TIẾT MÔN HỌC
(Dành cho trường Đại học Quốc Tế)

1. Thông tin tổng quát

- Tên môn học:

+ Tiếng Việt

+ Tiếng Anh

- Mã số môn học: PE015IU

- Thuộc khối kiến thức/kỹ năng:

☒ Kiến thức cơ bản/giáo dục đại cương

☐ Kiến thức chuyên ngành

☐ Môn học chuyên về kỹ năng chung

- Số tín chỉ:

+ Lý thuyết

+ Thực hành (thuyết trình)

- Môn học tiên quyết: Không

- Môn học trước: Không

- Môn học song hành: Không

Triết học Mác-Lênin

Philosophy of Marxism – Leninism

☐ Kiến thức cơ sở ngành

☐ Kiến thức khác

☐ Môn học đồ án/luận văn tốt nghiệp

03

30 (trên lớp)

15 (trên lớp)

90 (về nhà)

2. Mô tả môn học

(vị trí của môn học đối với chương trình đào tạo (CTĐT), những mục đích và nội dung chính yếu của môn học)

Môn học thuộc phần kiến thức giáo dục đại cương thuộc mảng lý luận chính trị, trang bị cho sinh viên những kiến thức cơ bản về triết học Mác-Lênin. Môn học nghiên cứu những quy luật vận động, phát triển chung nhất của tự nhiên, xã hội, tư duy; gồm 3 chương: Triết học và vai trò của triết học trong đời sống xã hội, chủ nghĩa duy vật biện chứng và chủ nghĩa duy vật lịch sử.

3. Tài liệu học tập

(Các giáo trình, tài liệu tham khảo, các phần mềm, không quá 5 cuốn)

Giáo trình:

[1] Bộ Giáo dục và Đào tạo (2021), *Giáo trình Triết học Mác – Lênin*, (dùng cho khối không chuyên ngành lý luận chính trị), Nxb. Chính trị quốc gia, Hà Nội.

[2] Bộ Giáo dục và Đào tạo (2012), *Giáo trình Những Nguyên lý cơ bản của chủ nghĩa Mác – Lênin*, Nxb. Chính trị quốc gia, Hà Nội.

[3] Hội đồng Trung ương (2008), *Giáo trình Triết học Mác-Lênin*, Nxb. Chính trị quốc gia, Hà Nội.

Tài liệu khác:

[1] Triết học Mác-Lênin (Bộ câu hỏi hướng dẫn ôn thi môn triết học), Nxb Sự thật, Hà Nội, 1980

[2] Triết học Mác-Lênin, tập 1 và 2, Nxb Sách giáo khoa Mác - Lênin, Hà Nội, 1995



Phần mềm:**4. Mục tiêu môn học**

(các mục tiêu tổng quát của môn học, thể hiện sự liên quan với các chuẩn đầu ra (X.x.x) của CTĐT và trình độ năng lực (TĐNL) được phân bổ cho môn học)

Mục tiêu (1)	Mô tả mục tiêu (2)	CDR của môn học tương ứng CTĐT (3)	TĐNL tương ứng CTĐT (4)
G1	4.1 Về kiến thức Sinh viên hiểu được vai trò của triết học Mác - Lênin trong đời sống xã hội và những nội dung cơ bản về: Chủ nghĩa duy vật biện chứng và chủ nghĩa duy vật lịch sử.		
G2	4.2. Về kỹ năng Sinh viên vận dụng, phân tích được những tri thức cơ bản của triết học Mác - Lênin về chủ nghĩa duy vật biện chứng và chủ nghĩa duy vật lịch sử vào việc nhận thức, lý giải các hiện tượng, quy luật trong đời sống xã hội Việt Nam và thế giới.		
G3	4.3. Về thái độ/năng lực tự chủ và trách nhiệm Sinh viên đánh giá được giá trị, tính khoa học cách mạng và nhân văn của triết học Mác - Lênin đối với thực tiễn Việt Nam và nhân loại		

(1): Ký hiệu mục tiêu của môn học.

(2): Mô tả các mục tiêu bao gồm các động từ chủ động, các chủ đề CDR (X.x.x) và bối cảnh áp dụng tổng quát

(3), (4): Ký hiệu CDR của CTĐT và TĐNL tương ứng được phân bổ cho môn học.

5. Chuẩn đầu ra môn học

(các mục cụ thể hay CDR của môn học và mức độ giảng dạy I, T, U)

CDR (1)	Mô tả CDR (2)	Mức độ giảng dạy (3)
G1.1	Sinh viên hiểu những tri thức cơ bản về triết học nói chung, những điều kiện ra đời của triết học Mác – Lênin. Đồng thời giúp sinh viên phân tích, đánh giá được thực chất cuộc cách mạng trong triết học do C.Mác và Ph.Ăngghen thực hiện và các giai đoạn hình thành, phát triển triết học Mác – Lênin; Vai trò của triết học Mác trong đời sống xã hội và trong thời đại ngày nay.	I, T
G1.2	Sinh viên hiểu được quan điểm của chủ nghĩa duy vật biện chứng về vật chất, các hình thức, phương thức tồn tại của vật chất; nguồn gốc, bản chất của ý thức; mối quan hệ biện chứng giữa vật chất và ý thức.	I.T. U

	Sinh viên hiểu được những nội dung cơ bản của phép biện chứng duy vật; ý nghĩa phương pháp luận trong nhận thức và thực tiễn. Sinh viên hiểu những kiến thức cơ bản về lý luận nhận thức của chủ nghĩa duy vật biện chứng; ý nghĩa phương pháp luận.	
G1.3	Sinh viên hiểu những kiến thức về học thuyết hình thái kinh tế - xã hội; vận dụng ý nghĩa phương pháp luận vào thực tiễn của Việt Nam. Giúp sinh viên hiểu được những quan điểm cơ bản của triết học Mác – Lênin về giai cấp; về nhà nước và cách mạng xã hội; về dân tộc, quan hệ giai cấp - dân tộc – nhân loại; ý nghĩa phương pháp luận trong nhận thức những vấn đề cơ bản của cách mạng Việt Nam. Sinh viên hiểu những quan điểm cơ bản của triết học Mác – Lênin về con người, về ý thức xã hội, sự vận dụng vào cách mạng Việt Nam.	I, T, U
G2.1	Sinh viên phân tích mang tính khái quát hóa để rút ra <i>Từ khóa tri thức</i> đối với mỗi nội dung và tư duy có hệ thống.	U
G2.2	Sinh viên vận dụng trình bày, thuyết minh, phản biện, tranh luận, hùng biện những tri thức lý luận đang học tập, nghiên cứu dựa trên thực tiễn.	U
G2.3	Sinh viên vận dụng trong giao tiếp xã hội, hợp tác và làm việc nhóm, chia sẻ tri thức và kinh nghiệm, khả năng điều hành nhóm làm việc.	U
G3.1	Sinh viên phân tích, đánh giá được những nền tảng khoa học và cách mạng của chủ nghĩa duy vật biện chứng và chủ nghĩa duy vật lịch sử.	U
G3.2	Sinh viên vận dụng lập trường mácxít nhằm đấu tranh chống lại các quan điểm sai trái, xuyên tạc triết học Mác – Lênin.	U

(1): Ký hiệu CDR của môn học

(2): Mô tả CDR, bao gồm các động từ chủ động, các chủ đề CDR ở cấp độ 4 (X.x.x.x) và bối cảnh áp dụng cụ thể.

(3): I (Introduce): giới thiệu; T (Teach): dạy; U (Utilize): sử dụng

6. Đánh giá môn học

(các thành phần, các bài đánh giá, các tiêu chí đánh giá, chuẩn đánh giá, và tỷ lệ đánh giá, thể hiện sự tương quan với các CDR của môn học)

Thành phần đánh giá (1)	Bài đánh giá (2)	CDR môn học (3)	Tỷ lệ % (4)
A1. Đánh giá quá trình	- Chuyên cần (A1.1) - Tham gia học tập trên lớp tích cực, hăng hái phát biểu (A1.2) - Thuyết trình nhóm (A1.3)	G1.1, G1.2- G1.3, G2.1, G2.2- G2.3 G3.1-	30%

		G3.2	
A2. Đánh giá giữa kỳ	Hình thức tự luận hoặc trắc nghiệm (A2.1)	G1.1 G2.1- G2.2, G3.1- G3.2	20%
A3. Đánh giá cuối kỳ	- Hình thức tự luận, sinh viên được sử dụng tài liệu giấy, không sử dụng thiết bị nối mạng khi làm bài thi: 75 phút (A3.1) - Điểm thưởng (tối đa 20% của điểm cuối kỳ)	G1.2- G1.3, G2.1- G2.2, G3.1- G3.2	50%

(1): các thành phần đánh giá của môn học.

(2): các bài đánh giá

(3): các CDR được đánh giá.

(4): tiêu chí đánh giá.

(5): chuẩn đánh giá

(6): Tỷ lệ điểm của các bài đánh giá trong tổng điểm môn học

7. Kế hoạch giảng dạy chi tiết

(các nội dung giảng dạy theo buổi học, thể hiện sự tương quan với các CDR của môn học, các hoạt động dạy và học (ở lớp, ở nhà) và các bài đánh giá của môn học)

Lý thuyết

1	Nội dung (2)	CDR môn học (3)	Hoạt động dạy và học (4)	Bài đánh giá (5)
1/3 tiết	Giới thiệu về môn học Chương 1 TRIẾT HỌC VÀ VAI TRÒ CỦA TRIẾT HỌC TRONG ĐỜI SỐNG XÃ HỘI I. triết học và vấn đề cơ bản của triết học 1. Khái lược về triết học - Nguồn gốc ra đời của triết học 1. Khái lược về triết học	G1.1	Hoạt động dạy: - Giới thiệu đề cương môn học - Giới thiệu nội dung đề tài thuyết trình nhóm) - Trình chiếu, thuyết giảng Hoạt động học: - Chia nhóm - Giới thiệu nhóm học tập - Nghe giảng, phát biểu - Đọc trước mục I, II của chương 1	A1.1, A1.2, A2.1, A3.1
2/3 tiết	Chương 1 TRIẾT HỌC VÀ VAI TRÒ CỦA TRIẾT HỌC TRONG ĐỜI SỐNG XÃ HỘI	G1.1 G2.2 G2.3	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học:	A1.1, A1.2, A2.1, A3.1

	I. Triết học và vấn đề cơ bản của triết học (tt) 1. Khái lược về triết học - Khái niệm triết học 2. <i>Vấn đề cơ bản của triết học</i>		- Nghe giảng, phát biểu - Phác thảo nội dung thuyết trình nhóm - Đọc trước phần I, mục 3, chương 1.	
3/3 tiết	Chương 1 TRIẾT HỌC VÀ VAI TRÒ CỦA TRIẾT HỌC TRONG ĐỜI SỐNG XÃ HỘI (tiếp theo) I. Triết học và vấn đề cơ bản của triết học (tt) 3. <i>Biện chứng và siêu hình</i>	G1.1 G2.2 G2.3	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu - Phác thảo nội dung thuyết trình nhóm - Đọc trước phần II chương 1.	A1.1, A1.2, A2.1, A3.1
4/3 tiết	Chương 1 TRIẾT HỌC VÀ VAI TRÒ CỦA TRIẾT HỌC TRONG ĐỜI SỐNG XÃ HỘI (tiếp theo) II. Triết học Mác - Lênin và vai trò của triết học Mác - Lênin trong đời sống xã hội 1. <i>Sự ra đời và phát triển của triết học Mác - Lênin</i> - Giới thiệu nội dung mục 2.3	G1.1 G2.2 G2.3	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu - Phác thảo nội dung thuyết trình nhóm - Đọc trước phần I chương 1.	A1.1, A1.2, A2.1, A3.1
5/3 tiết	Chương 2 CHỦ NGHĨA DUY VẬT BIỆN CHỨNG I. Vật chất và ý thức 1. <i>Vật chất và các hình thức tồn tại của vật chất</i> 2. <i>Nguồn gốc, bản chất và kết cấu của ý thức</i>	G1.2 G2.1 G2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước mục 3 phần I chương 2.	A1.1, A1.2, A2.1, A3.1
6/3 tiết	Chương 2 CHỦ NGHĨA DUY VẬT BIỆN CHỨNG I. Vật chất và ý thức 3. <i>Mối quan hệ giữa vật chất và ý thức</i> II. Phép biện chứng duy vật 1. <i>Hai loại hình biện chứng và phép biện chứng duy vật</i>	G1.2 G2.1 G2.2 G3.1 G3.2 G1.3	- Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước mục 1,2 phần II chương 2.	A1.1, A1.2, A2.1, A3.1
7/3 tiết	Chương 2 CHỦ NGHĨA DUY VẬT BIỆN	G1.3 G2.1	Hoạt động dạy: - Trình chiếu, thuyết	A1.1, A1.2,

	CHỨNG (tiếp theo) II. Phép biện chứng duy vật 2. Nội dung của phép biện chứng duy vật a. Hai nguyên lý. - Nguyên lý về mối liên hệ phổ biến - Nguyên lý về sự phát triển - Kiểm tra giữa kỳ	G.2.2 G3.1 G3.2	giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước mục 2 phần II chương 2.	A3.1
8/3 tiết	Chương 2 CHỦ NGHĨA DUY VẬT BIỆN CHỨNG (tiếp theo) II. Phép biện chứng duy vật 2. Nội dung của phép biện chứng duy vật c. Các cặp phạm trù của PBCDV - Phạm trù cái riêng – cái chung - Phạm trù nguyên	G1.3 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước mục 2 phần II chương 2.	A1.1, A1.2, A3.1
9/3 tiết	Chương 2 CHỦ NGHĨA DUY VẬT BIỆN CHỨNG (tiếp theo) II. Phép biện chứng duy vật 2. Nội dung của phép biện chứng duy vật c. Ba quy luật: - Quy luật Lượng – Chất. - Quy luật thống nhất và đấu tranh của các mặt đối lập	G1.3 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước phần III chương 2.	A1.1, A1.2, A3.1
10/3 tiết	Chương 2 CHỦ NGHĨA DUY VẬT BIỆN CHỨNG (tiếp theo) III. Lý luận nhận thức 1. Các nguyên tắc của lý luận nhận thức duy vật biện chứng 2. Nguồn gốc, bản chất của nhận thức 3. Thực tiễn và vai trò của thực tiễn đối với nhận thức - Giới thiệu mục 4.5	G1.3 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước phần I chương 3.	A1.1, A1.2, A3.1
11/3 tiết	Chương 3 CHỦ NGHĨA DUY VẬT LỊCH SỬ I. Học thuyết hình thái kinh tế - xã hội 1. Sản xuất vật chất là cơ sở của sự tồn tại và phát triển xã hội	G1.4 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình.	A1.1, A1.2, A3.1

	2. Biện chứng giữa lực lượng sản xuất và quan hệ sản xuất		- Đọc trước mục 3.4 phần I chương 3.	
12/3 tiết	Chương 3 CHỦ NGHĨA DUY VẬT LỊCH SỬ I. Học thuyết hình thái kinh tế - xã hội 3. Biện chứng giữa cơ sở hạ tầng và kiến trúc thượng tầng của xã hội 4. Sự phát triển các hình thái kinh tế - xã hội là một quá trình lịch sử - tự nhiên	G1.4 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước phần II và phần III chương 3.	A1.1, A1.2, A1.3, A3.1
13/3 tiết	Chương 3 CHỦ NGHĨA DUY VẬT LỊCH SỬ (tiếp theo) -Giới thiệu các khái niệm II. Giai cấp và dân tộc 1. Vấn đề giai cấp và đấu tranh giai cấp 2. Dân tộc 3. Mối quan hệ giai cấp - dân tộc - nhân loại III. Nhà nước và cách mạng xã hội 1. Nhà nước	G1.4 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước phần IV chương 3.	A1.1, A1.2, A1.3, A3.1
14/3 tiết	Chương 3 CHỦ NGHĨA DUY VẬT LỊCH SỬ (tiếp theo) IV. Ý thức xã hội 1. Khái niệm tồn tại xã hội và các yếu tố cơ bản của tồn tại xã hội 2. Ý thức xã hội và kết cấu của ý thức xã hội	G1.4 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng Hoạt động học: - Nghe giảng, phát biểu, làm việc nhóm, thuyết trình. - Đọc trước phần V chương 3.	A1.1, A1.2, A1.3, A3.1
15/3 tiết	Chương 3 CHỦ NGHĨA DUY VẬT LỊCH SỬ (tiếp theo) V. Triết học về con người 1. Khái niệm con người và bản chất con người - Giới thiệu mục 2.3.4 - Ôn tập thi cuối kỳ	G1.4 G2.1 G.2.2 G3.1 G3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng - Ôn tập thi cuối kỳ Hoạt động học: - Thuyết trình, thảo luận nhóm - Nghe giảng, ôn tập	A1.1, A1.2, A1.3, A3.1

(1): Thông tin về tuần/buổi học.

(2): Liệt kê nội dung giảng dạy theo chương, mục

(3): Liệt kê CĐR liên quan của môn học (ghi ký hiệu Gx.x),

(4): Liệt kê các hoạt động dạy và học (ở lớp, ở nhà), bao gồm đọc trước tài liệu

(nếu có yêu cầu)

(5): Liệt kê các bài đánh giá liên quan (ghi ký hiệu Ax.x)

Thực hành

Tuần/Buổi học (1)	Nội dung (2)	CDR môn học (3)	Hoạt động dạy và học (4)	Bài đánh giá (5)
...	Bài thực hành 1: ...	Gx.x ...	Dạy: ... Học ở lớp: ... Học ở nhà: ...	Ax.x ...

(1): Thông tin về tuần/buổi học. (2): Liệt kê nội dung thực hành theo bài thực hành

(3): Liệt kê CDR liên quan của môn học (ghi ký hiệu Gx.x),

(4): Liệt kê các hoạt động dạy và học (ở lớp, ở nhà), bao gồm đọc trước tài liệu (nếu có yêu cầu)

(5): Liệt kê các bài đánh giá liên quan (ghi ký hiệu Ax.x)

8. Quy định của môn học

(Các quy định của môn học (nếu có), thí dụ: sinh viên không nộp bài tập và các báo cáo đúng hạn, được coi như không nộp bài; sinh viên vắng 2 buổi thực hành trở lên, không được phép dự thi cuối kỳ ...)

- Quy định về Bài thuyết trình nhóm:

- Thành lập nhóm: Số lượng sinh viên tùy vào sĩ số lớp, do giảng viên quy định. Hạn chót đăng ký đề tài nhóm quản lý trên forum là buổi 2 hoặc trực tiếp nộp cho GV buổi 1.
- Các nhóm thuyết trình theo thứ tự được phân công. Lưu ý các nhóm cần có mặt đủ và mang theo tất cả các tài liệu liên quan khi thuyết trình.
- Hình thức nộp bài: Nộp file và biên bản làm việc nhóm qua mail cho GV

- Quy định về giờ giấc, chuyên cần, kỷ luật trong khóa học: Lên lớp đúng giờ, dự tối thiểu 80% thời gian học trên lớp (chỉ được phép vắng mặt tối đa 20% số tiết học). Nếu vắng quá số tiết quy định thì sẽ bị điểm 0 chuyên cần.

9. Phụ trách môn học

- Khoa/Bộ môn: Bộ môn Lý luận và Khoa học chính trị, Khoa Chính trị - Hành chính

- Địa chỉ và email liên hệ: daotao.spas@vnuhcm.edu.vn

KT. Trưởng Bộ môn
Phó trưởng Bộ môn



TS. Mạch Thị Khánh Trinh

Tp. Hồ Chí Minh, ngày 01 tháng 10 năm 2023

KT. TRƯỞNG KHOA
PHÓ TRƯỞNG KHOA



TS. Nguyễn Đình Quốc Cường

ĐỀ CƯƠNG CHI TIẾT MÔN HỌC

(Dành cho Trường Đại học Quốc tế, ĐHQG-HCM)

1. Thông tin tổng quát

- Tên môn học:

+ Tiếng Việt

+ Tiếng Anh

Kinh tế chính trị Mác - Lênin

Political economics of Marxism and
Leninism

- Mã số môn học:

PE016IU

- Thuộc khối kiến thức/kỹ năng:

☒ Kiến thức cơ bản/giáo dục đại cương

☐ Kiến thức cơ sở ngành

☐ Kiến thức chuyên ngành

☐ Kiến thức khác

☐ Môn học chuyên về kỹ năng chung

☐ Môn học đồ án/luận văn tốt nghiệp

- Số tín chỉ:

02

+ Lý thuyết

21 (trên lớp)

+ Thực hành (thuyết trình)

09 (trên lớp)

60 (về nhà)

- Môn học tiên quyết:

- Môn học trước:

Triết học Mác – Lênin

- Môn học song hành:

2. Mô tả môn học

Môn học này cung cấp cho sinh viên những phân tích của Các Mác về phương thức sản xuất tư bản chủ nghĩa và chỉ ra giới hạn phát triển của phương thức sản xuất này. V.I.Lênin bổ sung học thuyết kinh tế chính trị của Mác trong tình hình mới – giai đoạn chủ nghĩa tư bản độc quyền thống trị. Dựa vào nội dung cơ bản của kinh tế chính trị Mác – Lênin, sinh viên được tìm hiểu về mô hình kinh tế tổng quát của Việt Nam trong thời kỳ quá độ - Kinh tế thị trường định hướng xã hội chủ nghĩa. Bên cạnh đó, môn học này cũng cung cấp cho sinh viên về tính tất yếu phải công nghiệp hóa, hiện đại hóa và hội nhập kinh tế quốc tế trong bối cảnh CMCN lần thứ 4 và toàn cầu hóa diễn ra mạnh mẽ.

3. Tài liệu học tập



3.1. Giáo trình

- [1] Bộ Giáo dục và Đào tạo (2021), *Giáo trình Kinh tế chính trị Mác – Lênin*, (dùng cho khối không chuyên ngành lý luận chính trị) Nxb. Chính trị quốc gia, Hà Nội.
- [2] Bộ Giáo dục và Đào tạo (2012), *Giáo trình Những Nguyên lý cơ bản của chủ nghĩa Mác – Lênin*, Nxb. Chính trị quốc gia, Hà Nội.

3.2. Tài liệu khác

- [3] Các Mác, *Tư bản*, NXB Chính trị quốc gia Sự thật, Hà Nội, 2018
- [4] Klaus Schwab (2018), *Cách mạng công nghiệp lần thứ tư*, NXB Thế giới.
- [5] V.I.Lênin, Toàn tập – tập 27, NXB Chính trị Quốc gia Sự thật, 2005

3.3. Phần mềm: N/A

4. Mục tiêu môn học

(các mục tiêu tổng quát của môn học, thể hiện sự liên quan với các chuẩn đầu ra (X.x.x) của CTĐT và trình độ năng lực (TDNL) được phân bổ cho môn học)

Mục tiêu (1)	Mô tả mục tiêu (2)	CĐR của môn học tương ứng CTĐT (3)	TDNL tương ứng CTĐT (4)
G1	4.1 Về kiến thức Sinh viên hiểu được sự vận động và phát triển của phương thức sản xuất tư bản chủ nghĩa và giới hạn của nó theo phân tích của Mác – Lênin. Sinh viên cũng được hiểu rõ về mô hình kinh tế của Việt Nam thời kỳ quá độ lên chủ nghĩa xã hội đó là kinh tế thị trường định hướng xã hội chủ nghĩa. Ngoài ra, sinh viên cũng hiểu rõ về công nghiệp hóa, hiện đại hóa và hội nhập kinh tế quốc tế của Việt Nam.		3.5
G2	4.2. Về kỹ năng Sinh viên vận dụng những kiến thức đã học có thể nhận định, phân tích và đánh giá các vấn đề kinh tế chính trị trong nước và quốc tế. Vận dụng kiến thức kinh tế chính trị Mác – Lênin để		3.0

	đánh giá chủ nghĩa tư bản đương đại cũng như phân tích, đánh giá được mô hình kinh tế của Việt Nam trong thời kỳ quá độ lên chủ nghĩa xã hội. Ngoài ra, sinh viên còn vận dụng kiến thức kinh tế chính trị để phân tích quá trình công nghiệp hóa, hiện đại hóa và hội nhập kinh tế quốc tế của Việt Nam.		
G3	4.3. Về thái độ/năng lực tự chủ và trách nhiệm Vận dụng kiến thức kinh tế chính trị Mác – Lênin để có thái độ tích cực trong việc góp phần vào xây dựng và bảo vệ con đường chủ nghĩa xã hội của Việt Nam. Đấu tranh bác bỏ những luận điệu xuyên tạc, chống phá Chủ nghĩa Mác – Lênin và sự lãnh đạo của Đảng Cộng sản Việt Nam.		4.0

(1): Ký hiệu mục tiêu của môn học. (2): Mô tả các mục tiêu bao gồm các động từ chủ động, các chủ đề CDR (X.x.x) và bối cảnh áp dụng tổng quát

(3), (4): Ký hiệu CDR của CTĐT và TĐNL tương ứng được phân bổ cho môn học.

5. Chuẩn đầu ra môn học

CDR (1)	Mô tả CDR (2)	Mức độ giảng dạy (3)
G1.1	G1.1.1. Hiểu rõ lịch sử của kinh tế chính trị và kinh tế chính trị Mác – Lênin.	I, T
	G1.1.2 Hiểu rõ về mục tiêu, phương pháp và chức năng của KTCT Mác - Lênin	I.T
G1.2	G1.2.1. Hiểu rõ hai thuộc tính của hàng hóa và cấu trúc của giá trị hàng hóa	I.T.U
	G1.2.2. Hiểu về mặt chất và mặt lượng của giá trị hàng hóa và các nhân tố ảnh hưởng đến mặt lượng giá trị hàng hóa	I, T
	G1.2.3. Hiểu rõ mối quan hệ giữa giá trị hàng hóa và tiền tệ	I, T, U
	G1.2.4. Hiểu về thị trường và các quy luật cơ bản của kinh tế thị trường	I, T, U

G1.3	G1.3.1. Hiểu rõ được công thức chung của tư bản và mâu thuẫn của nó	I, T
	G1.3.2. Hiểu rõ được nguồn gốc của giá trị thặng dư TBCN	I, T
	G1.3.3. Hiểu rõ hàng hóa sức lao động và tính chất đặc biệt của nó	I, T
	G1.3.4. Hiểu được bản chất và các hình thức của tiền công	I, T, U
	G1.3.5. Hiểu được các phương pháp sản xuất giá trị thặng dư TBCN	I, T
	G1.3.6. Hiểu rõ ý nghĩa của tuần hoàn và chu chuyển tư bản	I, T
	G1.3.7. Hiểu được mục đích của tích lũy tư bản	I, T, U
	G1.3.8. Hiểu rõ các hình thức biểu hiện của giá trị thặng dư TBCN là mối quan hệ của chúng	I, T
G1.4	G1.4.1. Hiểu rõ hai giai đoạn phát triển của CNTB	I, T
	G1.4.2. Hiểu được nguyên nhân hình thành CNTB độc quyền	I, T
	G1.4.3. Hiểu được 5 đặc điểm của CNTB độc quyền theo phân tích của V.I. Lênin	I, T
	G1.4.4. Hiểu được những nguyên nhân hình thành và đặc điểm của chủ nghĩa tư bản độc quyền nhà nước.	I, T
G1.5	G1.5.1. Hiểu rõ về mô hình kinh tế thị trường định hướng XHCN và các đặc trưng của nó	I, T
	G1.5.2. Hiểu rõ về vai trò của thể chế kinh tế thị trường định hướng XHCN và tại sao cần phải hoàn thiện nó	I, T
	G1.5.3. Hiểu rõ vai trò của lợi ích kinh tế và các quan hệ lợi ích kinh tế trong nền kinh tế thị trường.	I, T
G1.6	G1.6.1. Hiểu rõ lý do tại sao một quốc gia cần phải tiến hành CNH và các quốc gia CNH thành công tiêu biểu	I, T
	G1.6.2. Hiểu rõ lịch sử và đặc trưng của các cuộc CMCN và mối liên hệ giữa CMCN với CNH	I, T, U
	G1.6.3. Hiểu rõ quá trình CNH, HĐH của Việt Nam	I, T
	G1.6.4. Hiểu được tính tất yếu của Việt Nam phải hội nhập kinh tế quốc tế trong bối cảnh toàn cầu hóa	I, T
	G2.1. Vận dụng phương pháp trừu tượng hóa khoa học để phân tích các vấn đề kinh tế chính trị	U
	G2.2. Vận dụng kiến thức kinh tế chính trị Mác -	

G2	Lênin để đánh giá chủ nghĩa tư bản hiện nay và sự lựa chọn con đường tiến lên CNXH của Việt Nam	U
	G2.3. Vận dụng kiến thức về kinh tế thị trường định hướng XHCN để hiểu rõ con đường đi lên CNXH của Việt Nam từ đó đấu tranh chống lại các thế lực chống phá chủ nghĩa Mác - Lênin	U
	G2.4. Vận dụng kiến thức về CNH, HĐH và hội nhập kinh tế quốc tế để phân tích chiến lược phát triển của Việt Nam trong bối cảnh CMCN 4.0 và toàn cầu hóa diễn ra ngày càng sâu rộng	U
G3	G3.1. Vận dụng kiến thức kinh tế chính trị Mác - Lênin, đóng góp vào công cuộc xây dựng chủ nghĩa xã hội	U
	G3.2. Vận dụng kiến thức kinh tế chính trị Mác – Lênin đấu tranh chống lại các luận điệu xuyên tạc chủ nghĩa Mác – Lênin và con đường đi lên CNXH của Việt Nam	U

(1): Ký hiệu CDR của môn học

(2): Mô tả CDR, bao gồm các động từ chủ động, các chủ đề CDR ở cấp độ 4 (X.x.x.x) và bối cảnh áp dụng cụ thể.

(3): I (Introduce): giới thiệu; T (Teach): dạy; U (Utilize): sử dụng

6. Đánh giá môn học

(các thành phần, các bài đánh giá, các tiêu chí đánh giá, chuẩn đánh giá, và tỷ lệ đánh giá, thể hiện sự tương quan với các CDR của môn học)

Thành phần đánh giá (1)	Bài đánh giá (2)	CDR môn học (3)	Tỷ lệ % (4)
A1. Đánh giá quá trình	- Chuyên cần (A1.1) - Tham gia học tập trên lớp tích cực, hăng hái phát biểu (A1.2) - Thuyết trình nhóm (A1.3)	G1.1- G1.6; G2.1 - G2.4; G3.1- G3.2	30%
A2. Đánh giá giữa kỳ	Kiểm tra tự luận: 60 phút (A2.1)	G1.1, G1.2, G1.3	20%
A3. Đánh giá cuối kỳ	Tự luận sinh viên được sử dụng tài liệu khi làm bài thi: 60 phút (A3.1)	G1.1 - G1.6; G2.1-G2.4	50%

(1): Các thành phần đánh giá của môn học. (2): Các bài đánh giá

(3): Các CDR được đánh giá. (4): Tiêu chí đánh giá. (5): Chuẩn đánh giá

(6): Tỷ lệ điểm của các bài đánh giá trong tổng điểm môn học

7. Kế hoạch giảng dạy chi tiết

Tuần/Buổi học (1)	Nội dung (2)	CDR môn học (3)	Hoạt động dạy và học (4)	Bài đánh giá (5)
1/4 tiết	Giới thiệu về môn học Chương 1 ĐỐI TƯỢNG, PHƯƠNG PHÁP NGHIÊN CỨU VÀ CHỨC NĂNG CỦA KINH TẾ CHÍNH TRỊ MÁC – LÊNIN I. Khái quát về sự hình thành và phát triển của kinh tế chính trị Mác – Lênin. II. Đối tượng, mục đích và phương pháp nghiên cứu của kinh tế chính trị Mác – Lênin III. Chức năng của kinh tế chính trị Mác – Lênin Chương 2 HÀNG HÓA, THỊ TRƯỜNG VÀ VAI TRÒ CỦA CÁC CHỦ THỂ THAM GIA THỊ TRƯỜNG I. Lý luận của C. Mác về sản xuất hàng hóa và hàng hóa 1. Sản xuất hàng hóa 2. Hàng hóa - <i>Khái niệm và thuộc tính của hàng hóa.</i> - <i>Tính hai mặt của lao động sản xuất hàng hóa.</i> - <i>Lượng giá trị và các nhân tố ảnh hưởng đến lượng giá trị của hàng hóa.</i>	G.1.1 G.1.2	Hoạt động dạy: - Giới thiệu về môn học, cơ cấu điểm, cách thức giảng dạy và học tập môn Kinh tế chính trị Mác – Lênin - Giới thiệu nội dung đề tài thuyết trình nhóm GHW) - Trình chiếu, thuyết giảng chương 1,2 và giải đáp thắc mắc. Hoạt động học: - Chia nhóm - Giới thiệu nhóm học tập - Nghe giảng, phát biểu, nêu thắc mắc - Đọc trước chương 2 và chương 3	A1.1 A1.2 A2.1 A3.1
	Chương 2 HÀNG HÓA, THỊ TRƯỜNG VÀ VAI TRÒ CỦA CÁC CHỦ THỂ THAM GIA THỊ TRƯỜNG (tiếp theo)		Hoạt động dạy: - Trình chiếu, thuyết giảng, giải đáp thắc	A1.1 A1.2

2/4 tiết	3. Tiền tệ 4. Dịch vụ và quan hệ trao đổi trong trường hợp một số yếu tố khác hàng hóa thông thường ở điều kiện ngày nay II. Thị trường và nền kinh tế thị trường. 1. Khái niệm, phân loại và vai trò của thị trường. 2. Nền kinh tế thị trường và một số quy luật chủ yếu của nền kinh tế thị trường - <i>Nền kinh tế thị trường.</i> - <i>Một số quy luật kinh tế chủ yếu của nền kinh tế thị trường.</i> III. Vai trò của một số chủ thể tham gia thị trường. 1. Người sản xuất 2. Người tiêu dùng 3. Các chủ thể trung gian trong thị trường. 4. Nhà nước.	G.1.2 G.2.1	mắc - Tổng kết nội dung thuyết trình nhóm Hoạt động học: - Nghe giảng, thảo luận, phát biểu, nêu thắc mắc. - Thuyết trình nhóm GHW - Đọc trước chương 3.	A1.3 A2.1 A3.1
3/4 tiết	Chương 3 GIÁ TRỊ THẶNG DƯ TRONG NỀN KINH TẾ THỊ TRƯỜNG I. Lý luận của Các Mác về giá trị thặng dư 1. Nguồn gốc của giá trị thặng dư. - <i>Công thức chung của tư bản</i> - <i>Hàng hóa sức lao động</i> - <i>Sự sản xuất giá trị thặng dư</i> - <i>Tư bản bất biến và tư bản khả biến</i> - <i>Tiền công</i> - <i>Tuần hoàn và chu chuyển tư bản</i> 2. Bản chất của giá trị thặng dư 3. Các phương pháp sản xuất giá trị thặng dư	G.1.3 G.2.2 G.3.1 G.3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng, giải đáp thắc mắc - Tổng kết nội dung thuyết trình nhóm Hoạt động học: - Nghe giảng, thảo luận, phát biểu, nêu thắc mắc. - Thuyết trình nhóm GHW	A1.1 A1.2 A1.3 A2.1 A3.1

			- Đọc trước chương 4.	
4/4 tiết	Chương 3 GIÁ TRỊ THẶNG DƯ TRONG NỀN KINH TẾ THỊ TRƯỜNG (tiếp theo) II. Tích lũy tư bản 1. Bản chất của tích lũy tư bản. 2. Những nhân tố ảnh hưởng đến quy mô tích lũy. 3. Một số hệ quả của tích lũy tư bản. III. Các hình thức biểu hiện của giá trị thặng dư trong nền kinh tế thị trường. 1. Lợi nhuận 2. Lợi tức. 3. Địa tô TBCN	G.1.3 G.2.2 G.3.1 G.3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng, giải đáp thắc mắc - Tổng kết nội dung thuyết trình nhóm Hoạt động học: - Nghe giảng, thảo luận, phát biểu, nêu thắc mắc. - Thuyết trình nhóm GHW - Đọc trước chương 4.	A1.1 A1.2 A1.3 A2.1 A3.1
5/4 tiết	Chương 4 CẠNH TRANH VÀ ĐỘC QUYỀN TRONG NỀN KINH TẾ THỊ TRƯỜNG (tiếp theo) 1. Lý luận của V.I. Lê nin về đặc điểm kinh tế của độc quyền (tt). - <i>Xuất khẩu tư bản trở thành phổ biến</i> - <i>Cạnh tranh để phân chia thị trường thế giới là tất yếu giữa các tập đoàn độc quyền.</i> - <i>Lôi kéo, thúc đẩy các chính phủ vào việc phân định khu vực lãnh thổ ảnh hưởng là cách thức để bảo vệ lợi ích độc quyền.</i> 2. Lý luận của V.I. Lênin về đặc điểm kinh tế của độc quyền nhà nước trong CNTB	G.1.4 G.2.2 G.3.1 G.3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng, giải đáp thắc mắc - Tổng kết nội dung thuyết trình nhóm Hoạt động học: - Nghe giảng, thảo luận, phát biểu, nêu thắc mắc. - Thuyết trình nhóm GHW - Đọc trước chương 5.	A1.1 A1.2 A1.3 A3.1

	- Sự kết hợp nhân sự giữa tổ chức độc quyền và nhà nước. - Sự hình thành, phát triển sở hữu nhà nước. - Độc quyền nhà nước trở thành công cụ để nhà nước điều tiết nền kinh tế. III. Biểu hiện mới của độc quyền, độc quyền nhà nước trong điều kiện ngày nay; vai trò lịch sử của CNTB. 1. Biểu hiện mới của độc quyền 2. Biểu hiện mới của độc quyền nhà nước dưới CNTB 3. Vai trò lịch sử của CNTB			
6/4 tiết	Chương 5 KINH TẾ THỊ TRƯỜNG ĐỊNH HƯỚNG XÃ HỘI CHỦ NGHĨA VÀ CÁC QUAN HỆ LỢI ÍCH KINH TẾ Ở VIỆT NAM I. Kinh tế thị trường định hướng xã hội chủ nghĩa ở Việt Nam 1. Khái niệm về kinh tế thị trường định hướng XHCN ở Việt Nam. 2. Tính tất yếu khách quan của việc phát triển kinh tế thị trường định hướng XHCN ở Việt Nam. 3. Đặc trưng của kinh tế thị trường định hướng XHCN ở Việt Nam. II. Hoàn thiện thể chế kinh tế thị trường định hướng XHCN ở Việt Nam 1. Sự cần thiết phải hoàn thiện thể chế kinh tế thị trường định hướng XHCN ở Việt Nam. 2. Nội dung hoàn thiện thể chế kinh tế thị trường định hướng XHCN ở	G.1.5 G.2.3 G.3.1 G.3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng, giải đáp thắc mắc - Tổng kết nội dung thuyết trình nhóm Hoạt động học: - Nghe giảng, thảo luận, phát biểu, nêu thắc mắc. - Thuyết trình nhóm GHW - Đọc trước chương 6.	A1.1 A1.2 A1.3 A3.1



	Việt Nam. III. Các quan hệ lợi ích kinh tế ở Việt Nam. 1. Lợi ích kinh tế và quan hệ lợi ích kinh tế. - <i>Lợi ích kinh tế</i>			
7/4 tiết	Chương 5 KINH TẾ THỊ TRƯỜNG ĐỊNH HƯỚNG XÃ HỘI CHỦ NGHĨA VÀ CÁC QUAN HỆ LỢI ÍCH KINH TẾ Ở VIỆT NAM (tiếp theo) 1. Lợi ích kinh tế và quan hệ lợi ích kinh tế (tt). - <i>Quan hệ lợi ích kinh tế.</i> 2. Vai trò của nhà nước trong đảm bảo hài hòa các quan hệ lợi ích. - Bảo vệ lợi ích hợp pháp, tạo môi trường thuận lợi cho hoạt động tìm kiếm lợi ích của các chủ thể kinh tế. - Điều hòa lợi ích giữa cá nhân – doanh nghiệp – xã hội. - Kiểm soát, ngăn ngừa các quan hệ lợi ích có ảnh hưởng tiêu cực đối với sự phát triển của xã hội. Chương 6 CÔNG NGHIỆP HÓA, HIỆN ĐẠI HÓA VÀ HỘI NHẬP KINH TẾ QUỐC TẾ CỦA VIỆT NAM I. Công nghiệp hóa, hiện đại hóa của Việt Nam. 1. Khái quát về cách mạng công nghiệp và công nghiệp hóa. - Khái quát về cách mạng công nghiệp - Công nghiệp hóa và các mô hình công nghiệp hóa trên thế giới	G.1.5 G.1.6 G.2.3 G.2.4 G.3.1 G.3.2	Hoạt động dạy: - Trình chiếu, thuyết giảng, giải đáp thắc mắc - Tổng kết nội dung thuyết trình nhóm Hoạt động học: - Nghe giảng, thảo luận, phát biểu, nêu thắc mắc. - Thuyết trình nhóm GHW - Đọc trước chương 6.	A1.1 A1.2 A1.3 A3.1
	Chương 6		Hoạt động dạy:	

8/2 tiết	CÔNG NGHIỆP HÓA, HIỆN ĐẠI HÓA VÀ HỘI NHẬP KINH TẾ QUỐC TẾ CỦA VIỆT NAM (tiếp theo) 2. Tính tất yếu khách quan và nội dung công nghiệp hóa, hiện đại hóa ở Việt Nam. - <i>Tính tất yếu của công nghiệp hóa, hiện đại hóa ở Việt Nam.</i> - <i>Nội dung CNH, HĐH ở Việt Nam</i> II. Hội nhập kinh tế quốc tế của Việt Nam 1. Khái niệm và nội dung hội nhập kinh tế quốc tế. 2. Tác động của hội nhập kinh tế quốc tế đến quá trình phát triển của Việt Nam 3. Phương hướng nâng cao hiệu quả hội nhập kinh tế quốc tế trong phát triển của Việt Nam Ôn tập thi cuối kì	G.1.6 G.2.4 G.3.1 G.3.2	- Trình chiếu, thuyết giảng, tổng kết nội dung thuyết trình nhóm. - Giải đáp thắc mắc cho sinh viên - Công bố điểm quá trình. Hoạt động học: - Nghe giảng - Phát biểu, thảo luận - Nêu thắc mắc về môn học.	A1.1 A1.2 A1.3 A3.1

(1): Thông tin về tuần/buổi học. (2): Liệt kê nội dung giảng dạy theo chương, mục

(3): Liệt kê CDR liên quan của môn học (ghi ký hiệu Gx.x),

(4): Liệt kê các hoạt động dạy và học (ở lớp, ở nhà), bao gồm đọc trước tài liệu (nếu có yêu cầu)

(5): Liệt kê các bài đánh giá liên quan (ghi ký hiệu Ax.x)

8. Quy định của môn học

- Quy định về Bài thuyết trình nhóm GHW:

+ Thành lập nhóm: 5 sinh viên/nhóm. Hạn chót đăng ký đề tài nhóm Quản lý trên forum là buổi 1 hoặc trực tiếp nộp cho GV.

+ Tuần 2 (buổi thứ 2) thuyết trình theo thứ tự. Lưu ý các nhóm cần có mặt đủ và mang theo tất cả các tài liệu liên quan đến GHW khi đi thuyết trình.

+ Hình thức nộp bài: Nộp file và biên bản làm việc nhóm qua mail cho GV

- Quy định về giờ giấc, chuyên cần, kỷ luật trong khóa học: Lên lớp đúng giờ, dự tối thiểu 80% thời gian học trên lớp (chỉ được phép vắng mặt tối đa 20% số tiết học). Nếu vắng quá số tiết quy định sẽ bị cấm thi theo quy chế. Có đầy đủ điểm kiểm tra, điểm thi kết thúc học phần & nhiệt tình thảo luận, phát biểu xây dựng bài, nghiêm túc trong giờ học.



9. Phụ trách môn học

- Khoa/Bộ môn: Bộ môn Lý luận và Khoa học chính trị, Khoa Chính trị - Hành chính
- Email liên hệ: daotao.spas@vnuhcm.edu.vn.

KT. Trưởng Bộ môn
Phó trưởng Bộ môn



Lê Văn Thông

TP. Hồ Chí Minh, ngày 01 tháng 10 năm 2023

KT. TRƯỞNG KHOA
PHÓ TRƯỞNG KHOA



TS. Nguyễn Đình Quốc Cường

ĐẠI HỌC QUỐC GIA TP. HỒ CHÍ MINH
KHOA CHÍNH TRỊ - HÀNH CHÍNH

ĐỀ CƯƠNG CHI TIẾT MÔN HỌC
(dành cho trường Đại học Quốc Tế)

1. Thông tin tổng quát

Tên môn học:

Tiếng Việt

Tiếng Anh

- Mã số môn học:

Thuộc khối kiến thức/kỹ năng:

☒ Kiến thức cơ bản/giáo dục đại cương

☐ Kiến thức chuyên ngành

☐ Môn học chuyên về kỹ năng chung

- Số tín chỉ:

Lý thuyết

Thực hành

- Môn học tiên quyết:

- Môn học trước:

- Môn học song hành:

Chủ nghĩa xã hội khoa học

Scientific socialism

PA21GEP03

☐ Kiến thức cơ sở ngành

☐ Kiến thức khác

☐ Môn học đồ án/luận văn tốt nghiệp

2 (30 tiết)

30 tiết

Triết học Mác – Lênin

2. Mô tả môn học

(Vị trí của môn học đối với chương trình đào tạo (CTĐT), những mục đích và nội dung chính yếu của môn học)

Môn học thuộc phần kiến thức giáo dục đại cương trong khối kiến thức cơ bản về lý luận chính trị.

Trang bị cho sinh viên những kiến thức cơ bản về chủ nghĩa xã hội khoa học: Đối tượng, phương pháp nghiên cứu, ý nghĩa của việc nghiên cứu chủ nghĩa xã hội khoa học; về sứ mệnh lịch sử của giai cấp công nhân; về chủ nghĩa xã hội và thời kỳ quá độ lên chủ nghĩa xã hội; về dân chủ xã hội chủ nghĩa và nhà nước xã hội chủ nghĩa; về cơ cấu xã hội - giai cấp và liên minh giai cấp, tầng lớp trong thời kỳ quá độ lên chủ nghĩa xã hội; về vấn đề dân tộc và tôn giáo trong thời kỳ quá độ lên chủ nghĩa xã hội.

Môn học có mối quan hệ trực tiếp tới việc giáo dục lập trường, tư tưởng cho sinh viên, cũng như cung cấp kiến thức chuyên sâu cho sinh viên trong cách nhìn nhận các vấn đề chính trị xã hội.

3. Tài liệu học tập

(Các giáo trình, tài liệu tham khảo, các phần mềm, không quá 5 cuốn)

Giáo trình:

- Bộ Giáo dục và Đào tạo (2021), *Giáo trình Chủ nghĩa xã hội khoa học*, (dùng cho



khối không chuyên ngành lý luận chính trị) Nxb. Chính trị quốc gia, Hà Nội.

- Bộ Giáo dục và Đào tạo (2012), *Giáo trình Những Nguyên lý cơ bản của chủ nghĩa Mác – Lênin*, Nxb. Chính trị quốc gia, Hà Nội.

- Hội đồng Trung ương (2008), *Giáo trình Chủ nghĩa xã hội khoa học*, Nxb. Chính trị quốc gia, Hà Nội.

Tài liệu khác:

[1] Tên tác giả (năm xuất bản), *Tên giáo trình*. Nơi xuất bản: Tên nhà xuất bản

Phần mềm:

[..] Tên hãng phần mềm (năm phát hành/phiên bản). *Tên phần mềm...*

4. Mục tiêu môn học

(Các mục tiêu tổng quát của môn học, thể hiện sự liên quan với các chuẩn đầu ra (X.x.x) của CTĐT và trình độ năng lực (TĐNL) được phân bổ cho môn học)

Mục tiêu (1)	Mô tả mục tiêu (2)	CDR của môn học tương ứng CTĐT (3)
G1	Về kiến thức - Sinh viên hiểu một cách có hệ thống những nội dung cơ bản của học phần chủ nghĩa xã hội khoa học. Cùng các môn lý luận chính trị và các môn học khác giúp sinh viên có nhận thức tổng hợp, toàn diện về chủ nghĩa Mác-Lênin, tư tưởng Hồ Chí Minh và con đường đi lên CNXH ở Việt Nam. - Sinh viên hiểu những tri thức khoa học để luận giải sự ra đời tất yếu của chủ nghĩa xã hội, những nhiệm vụ, giải pháp cần thực hiện trong quá trình xây dựng chủ nghĩa xã hội nói chung và ở Việt Nam nói riêng. - Sinh viên hiểu những căn cứ khoa học để chống lại những nhận thức sai lệch và sự chống phá của các thế lực thù địch.	
G2	Về kỹ năng Sinh viên phân tích, đánh giá, giải quyết các vấn đề chính trị - xã hội nảy sinh trong thực tiễn. Và vận dụng quan điểm khoa học của chủ nghĩa Mác - Lênin để nhận diện được âm mưu diễn biến hòa bình của các thế lực phản động, thù địch.	
G3	Về thái độ/năng lực tự chủ và trách nhiệm Sinh viên đánh giá được sự cần thiết của việc học tập các môn lý luận chính trị; có niềm tin vào mục tiêu, lý tưởng xã hội chủ nghĩa và con đường đi lên chủ nghĩa xã hội; tin tưởng vào sự thành công của công cuộc đổi mới do Đảng Cộng sản Việt Nam khởi xướng và lãnh đạo.	

(1): Ký hiệu mục tiêu của môn học. (2): Mô tả các mục tiêu bao gồm các động từ chủ động, các chủ đề CDR (X.x.x) và bối cảnh áp dụng tổng quát

(3), (4): Ký hiệu CDR của CTĐT và TĐNL tương ứng được phân bổ cho môn học.

5. Chuẩn đầu ra môn học

(Các mục cụ thể hay CDR của môn học và mức độ giảng dạy I, T, U)

CDR (1)	Mô tả CDR (2)	Mức độ giảng dạy (I, T, U) (3)
G1.1	Sinh viên hiểu những kiến thức cơ bản, hệ thống về sự ra đời, các giai đoạn phát triển; đối tượng, phương pháp nghiên cứu và ý nghĩa của việc học tập, nghiên cứu chủ nghĩa xã hội khoa học. Trên cơ sở đó tạo điều kiện để sinh viên nghiên cứu các phạm trù tiếp theo của chủ nghĩa xã hội khoa học.	I, T
G1.2	Sinh viên hiểu những nội dung cơ bản của lý luận về sứ mệnh lịch sử toàn thể giới của giai cấp công nhân, biểu hiện và ý nghĩa của sứ mệnh đó trong bối cảnh hiện nay.	I, T
G1.3	Sinh viên hiểu những kiến thức cơ bản và hệ thống quan điểm của chủ nghĩa Mác - Lênin về hình thái kinh tế - xã hội cộng sản chủ nghĩa, về chủ nghĩa xã hội, thời kỳ quá độ lên chủ nghĩa xã hội và quá độ lên chủ nghĩa xã hội bỏ qua chế độ tư bản chủ nghĩa ở Việt Nam.	T, U
G1.4	Sinh viên hiểu đầy đủ và đúng bản chất của nền dân chủ xã hội chủ nghĩa và nhà nước xã hội chủ nghĩa, quan điểm của Đảng Cộng sản Việt Nam về việc xây dựng và hoàn thiện nền dân chủ và nhà nước xã hội chủ ở Việt Nam hiện nay.	T, U
G1.5	Sinh viên hiểu những kiến thức nền tảng về cơ cấu xã hội - giai cấp và liên minh giai cấp, tầng lớp trong thời kỳ quá độ lên chủ nghĩa xã hội. Giúp sinh viên hiểu rõ vị trí, vai trò của những giai cấp, tầng lớp cơ bản trong quá trình xây dựng đất nước và nội dung của liên minh giai cấp, tầng lớp trong thời kỳ quá độ lên chủ nghĩa xã hội ở Việt Nam.	T, U
G1.6	Sinh viên hiểu quan điểm cơ bản chủ nghĩa Mác-Lênin về vấn đề dân tộc, tôn giáo. Sinh viên nắm được những nội dung cơ bản của chính sách dân tộc, tôn giáo của Đảng và Nhà nước ta.	T, U
G1.7	Sinh viên hiểu những quan điểm cơ bản của chủ nghĩa Mác - Lênin, tư tưởng Hồ Chí Minh và Đảng Cộng sản Việt Nam về gia đình, xây dựng gia đình trong thời kỳ quá độ lên chủ nghĩa xã hội, xây dựng gia đình ở Việt Nam hiện nay.	T, U
G2.1	Sinh viên phân tích lý luận – thực tiễn về các vấn đề đặt ra trong cuộc sống một cách đúng đắn và nhận diện những biến đổi xã hội ở nước ta	U

CĐR (1)	Mô tả CĐR (2)	Mức độ giảng dạy (I, T, U) (3)
	trong thời kỳ quá độ lên chủ nghĩa xã hội.	
G2.2	Sinh viên vận dụng những nội dung trong bài học để phân tích, giải thích những vấn đề trong thực tiễn một cách khách quan, có cơ sở khoa học.	U
G2.3	Sinh viên vận dụng kiến thức môn học để làm việc nhóm, quản lý nhóm	U
G3.1	Xây dựng và củng cố niềm tin vào lý tưởng cộng sản chủ nghĩa, vào con đường đi lên chủ nghĩa xã hội, góp phần xây dựng thành công chủ nghĩa xã hội ở Việt Nam.	T, U
G3.2	Có ý thức chính trị - xã hội, thái độ kiên định về lập trường, tư tưởng, có tinh thần đấu tranh bảo vệ lẽ phải, bảo vệ những quan điểm, chủ trương, chính sách đúng đắn của Đảng và Nhà nước; chống lại biểu hiện thờ ơ về chính trị và những quan điểm sai trái, thù địch cũng như những biểu hiện tiêu cực trong đời sống xã hội.	U
G3.3	Có năng lực dạy học, tự nghiên cứu các vấn đề liên quan đến chủ nghĩa Mác- Lênin, tư tưởng Hồ Chí Minh, đường lối, sách lược của Đảng, Nhà nước.	U

(1): Ký hiệu CĐR của môn học

(2): Mô tả CĐR, bao gồm các động từ chủ động, các chủ đề CĐR ở cấp độ 4 (X.x.x.x) và bối cảnh áp dụng cụ thể.

(3): I (Introduce): giới thiệu; T (Teach): dạy; U (Utilize): sử dụng

6.Đánh giá môn học

(Các thành phần, các bài đánh giá, các tiêu chí đánh giá, chuẩn đánh giá, và tỷ lệ đánh giá, thể hiện sự tương quan với các CĐR của môn học)

Thành phần đánh giá (1)	Bài đánh giá (2)	CĐR môn học (3)	Tỷ lệ % (6)
A1. Đánh giá quá trình	A1.1. Chuyên cần A1.2. Thuyết trình nhóm, bài tập lớn, thu hoạch...	G1.1 - G1.7, G2.1 - G2.3, G3.1- G3.3	30%
A2. Đánh giá giữa kỳ (Quiz)	A2.1. Trắc nghiệm (đề đóng) hoặc tự luận (được tham khảo tài liệu) thời gian làm bài 45 phút	G1.1 - G1.3, G2.1 - G2.3, G3.1- G3.3	20%
A3. Đánh giá cuối kỳ (FEX)	A3.1. Thi đề chung. Đề thi bao quát toàn bộ nội dung môn học bằng hình thức tự luận (đề mở). Thời gian 60 phút.	G1.1 - G1.7, G2.1 - G2.3, G3.1- G3.3	50%

(1): các thành phần đánh giá của môn học. (2): các bài đánh giá
 (3): các CDR được đánh giá. (4): tiêu chí đánh giá. (5): chuẩn đánh giá
 (6): Tỷ lệ điểm của các bài đánh giá trong tổng điểm môn học

6. Kế hoạch giảng dạy chi tiết

Tuần/Buổi học (1)	Nội dung (2)	Hoạt động dạy và học (3)	CĐRMH (4)
1/ 2 tiết	Giới thiệu về môn học Chương 1: NHẬP MÔN CHỦ NGHĨA XÃ HỘI KHOA HỌC 1. SỰ RA ĐỜI CỦA CHỦ NGHĨA XÃ HỘI KHOA HỌC 1.1.. Hoàn cảnh lịch sử sự ra đời của chủ nghĩa xã hội khoa học 1.2. Vai trò của C. Mác và Ăngghen	Dạy: - Thông báo quy định giảng dạy, học tập. - Công bố quy định kiểm tra, đánh giá môn học - Giới thiệu nội dung môn học - Giới thiệu nội dung đề tài thuyết trình nhóm, chia nhóm Học ngoài lớp: - Đọc trước tài liệu chương 1. Dạy: thuyết giảng Học ở lớp: Thảo luận và phát biểu trên lớp.	G1.1 G2.1 G2.2 G3.1 G3.1 G3.3
2/2 tiết	Chương 1: NHẬP MÔN CHỦ NGHĨA XÃ HỘI KHOA HỌC 2. CÁC GIAI ĐOẠN PHÁT TRIỂN CƠ BẢN CỦA CHỦ NGHĨA XÃ HỘI KHOA HỌC 2.1. C.Mác và Ph.Ăngghen phát triển chủ nghĩa xã hội khoa học 2.2. V.I.Lênin vận dụng và phát triển chủ nghĩa xã hội khoa học trong điều kiện mới 2.3. Sự vận dụng và phát triển sáng tạo chủ nghĩa xã hội khoa học từ sau khi Lênin qua đời đến nay 3. ĐỐI TƯỢNG, PHƯƠNG PHÁP VÀ Ý NGHĨA CỦA VIỆC NGHIÊN CỨU CHỦ NGHĨA XÃ HỘI KHOA HỌC 3.1. Đối tượng nghiên cứu của chủ nghĩa xã hội khoa học	Dạy: thuyết giảng phần 1; 2.1. Hướng dẫn tự đọc phần còn lại. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: - Phác thảo nội dung thuyết trình nhóm GHW - Đọc trước tài liệu chương 2.	G1.1 G2.1 G2.2 G3.1 G3.1 G3.3



	3.2. Phương pháp nghiên cứu của chủ nghĩa xã hội khoa học 3.3. Ý nghĩa của việc nghiên cứu chủ nghĩa xã hội khoa học		
3/ 2 tiết	Chương 2 SỨ MỆNH LỊCH SỬ CỦA GIAI CẤP CÔNG NHÂN 1. Quan điểm cơ bản của chủ nghĩa Mác - Lênin về giai cấp công nhân và sứ mệnh lịch sử thế giới của giai cấp công nhân 1.1. Khái niệm và đặc điểm của giai cấp công nhân 1.2. Nội dung và đặc điểm sứ mệnh lịch sử của giai cấp công nhân 1.3. Những điều kiện quy định sứ mệnh lịch sử của giai cấp công nhân. 2. Giai cấp công nhân và việc thực hiện sứ mệnh lịch sử của giai cấp công nhân hiện nay 2.1. Giai cấp công nhân hiện nay 2.2. Thực hiện sứ mệnh lịch sử của giai cấp công nhân trên thế giới hiện nay	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: - Đọc trước tài liệu mục 3, chương 2	G1.2 G2.1 G2.2 G3.1 G3.1 G3.3
4/ 2 tiết	Chương 2: SỨ MỆNH LỊCH SỬ CỦA GIAI CẤP CÔNG NHÂN (tiếp theo) 3. SỨ MỆNH LỊCH SỬ CỦA GIAI CẤP CÔNG NHÂN VIỆT NAM 3.1. Đặc điểm của giai cấp công nhân Việt Nam 3.2. Nội dung sứ mệnh lịch sử của giai cấp công nhân Việt Nam hiện nay 3.3. Phương hướng và một số giải pháp chủ yếu để xây dựng giai cấp công nhân Việt Nam hiện nay	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: - Đọc trước tài liệu chương 3	G1.2 G2.1 G2.2 G3.1 G3.1 G3.3
5/ 2 tiết	Chương 3: CHỦ NGHĨA XÃ HỘI VÀ THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 1. CHỦ NGHĨA XÃ HỘI 1.1. Chủ nghĩa xã hội, giai đoạn đầu của hình thái kinh tế - xã hội công sản chủ	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp:	G1.3 G2.1 G2.2 G3.1 G3.1 G3.3

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	nghĩa 1.2. Điều kiện ra đời chủ nghĩa xã hội Những đặt trưng cơ bản của chủ nghĩa xã hội 2. THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 2.1. Tính tất yếu khách quan của thời kỳ quá độ lên chủ nghĩa xã hội 2.2. Đặc điểm của thời kỳ quá độ lên chủ nghĩa xã hội	- Đọc trước tài liệu mục 3, chương 3	
6/ 2 tiết	Chương 3: CHỦ NGHĨA XÃ HỘI VÀ THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI (tiếp theo) 3. QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI Ở VIỆT NAM 3.1. Quá độ lên chủ nghĩa xã hội bỏ qua chế độ tư bản chủ nghĩa 3.2. Những đặc trưng cơ bản của chủ nghĩa xã hội và phương hướng xây dựng chủ nghĩa xã hội ở Việt Nam hiện nay	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: - ôn tập, chuẩn bị kiểm tra giữa kỳ	G1.3 G2.1 G2.2 G3.1 G3.1 G3.3
7/ 2 tiết	-Kiểm tra giữa kỳ -Hướng dẫn tự đọc các nội dung của chương 4.5.6	Dạy: Tổ chức kiểm tra giữa kỳ, hướng dẫn tự học Học ở lớp: Làn bài thi Học ngoài lớp: - Đọc trước tài liệu chương 4	G1.1, G1.2, G1.3 G2.1, G2.2, G2.3 G3.1, G3.1, G3.3
8 /2 tiết	Chương 4: DÂN CHỦ XÃ HỘI CHỦ NGHĨA VÀ NHÀ NƯỚC XÃ HỘI CHỦ NGHĨA 1. DÂN CHỦ VÀ DÂN CHỦ XÃ HỘI CHỦ NGHĨA 1.1. Dân chủ và sự ra đời, phát triển của dân chủ 1.2. Dân chủ xã hội chủ nghĩa 2. NHÀ NƯỚC XÃ HỘI CHỦ NGHĨA 2.1. Sự ra đời, bản chất, chức năng của nhà nước xã hội chủ nghĩa 2.2. Mối quan hệ giữa dân chủ xã hội chủ nghĩa và nhà nước xã hội chủ nghĩa	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Đọc trước tài liệu mục 3, chương 4	G1.4 G2.1 G2.2 G3.1 G3.1 G3.3

9/ 2 tiết	Chương 4: DÂN CHỦ XÃ HỘI CHỦ NGHĨA VÀ NHÀ NƯỚC XÃ HỘI CHỦ NGHĨA (tiếp theo) 3. DÂN CHỦ XÃ HỘI CHỦ NGHĨA VÀ NHÀ NƯỚC PHÁP QUYỀN XÃ HỘI CHỦ NGHĨA Ở VIỆT NAM <i>3.1. Dân chủ xã hội chủ nghĩa ở Việt Nam</i> <i>3.2. Nhà nước pháp quyền xã hội chủ nghĩa ở Việt Nam</i> <i>3.3. Phát huy dân chủ xã hội chủ nghĩa, xây dựng nhà nước pháp quyền xã hội chủ nghĩa ở Việt Nam hiện nay</i>	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Đọc trước tài liệu chương 5	G1.4 G2.1 G2.2 G3.1 G3.1 G3.3
10/ 2 tiết	Chương 5: CƠ CẤU XÃ HỘI - GIAI CẤP VÀ LIÊN MINH GIAI CẤP, TẦNG LỚP TRONG THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 1. CƠ CẤU XÃ HỘI GIAI CẤP TRONG THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI <i>1.1. Khái niệm và vị trí của cơ cấu xã hội - giai cấp trong cơ cấu xã hội</i> <i>1.2. Sự biến đổi có tính quy luật của cơ cấu xã hội - giai cấp trong thời kỳ quá độ lên chủ nghĩa xã hội</i> 2. LIÊN MINH GIAI CẤP, TẦNG LỚP TRONG THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI <i>2.1. Tính tất yếu của liên minh giai cấp, tầng lớp trong thời kỳ quá độ lên chủ nghĩa xã hội</i> <i>2.2. Nội dung của liên minh giai cấp, tầng lớp trong thời kỳ quá độ lên chủ nghĩa xã hội</i>	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Đọc trước tài liệu mục 3, chương 5	G1.5 G2.1 G2.2 G3.1 G3.1 G3.3
11/ 2 tiết	Chương 5: CƠ CẤU XÃ HỘI - GIAI CẤP VÀ LIÊN MINH GIAI CẤP, TẦNG LỚP TRONG THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI (tiếp theo) 3. CƠ CẤU XÃ HỘI - GIAI CẤP VÀ LIÊN MINH GIAI CẤP, TẦNG LỚP	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Đọc trước tài liệu	G1.5 G2.1 G2.2 G3.1 G3.1 G3.3

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	TRONG THỜI KỶ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI Ở VIỆT NAM 3.1. Cơ cấu xã hội - giai cấp trong thời kỳ quá độ lên chủ nghĩa xã hội ở Việt Nam. 3.2. Liên minh giai cấp, tầng lớp trong thời kỳ quá độ lên chủ nghĩa xã hội ở Việt Nam.	chương 6	
12/ 2 tiết	Chương 6: VẤN ĐỀ DÂN TỘC VÀ TÔN GIÁO TRONG THỜI KỶ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 1. DÂN TỘC TRONG THỜI KỶ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 1.1. Chủ nghĩa Mác - Lênin về dân tộc 1.2. Dân tộc và quan hệ dân tộc ở Việt Nam	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Đọc trước tài liệu mục 2, 3 chương 6	G1.6 G2.1 G2.2 G3.1 G3.1 G3.3
13/ 2 tiết	Chương 6: VẤN ĐỀ DÂN TỘC VÀ TÔN GIÁO TRONG THỜI KỶ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI (tiếp theo) 2. TÔN GIÁO TRONG THỜI KỶ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 2.1. Chủ nghĩa Mác - Lênin về tôn giáo. 2.2. Tôn giáo ở Việt Nam và chính sách tôn giáo của Đảng, Nhà nước ta hiện nay 3. QUAN HỆ DÂN TỘC VÀ TÔN GIÁO Ở VIỆT NAM 3.1. Đặc điểm quan hệ dân tộc và tôn giáo ở Việt Nam 3.2. Định hướng giải quyết mối quan hệ dân tộc và tôn giáo ở Việt Nam hiện nay.	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Đọc trước tài liệu chương 7	G1.6 G2.1 G2.2 G3.1 G3.1 G3.3
14/ 2 tiết	Chương 7: VẤN ĐỀ GIA ĐÌNH TRONG THỜI KỶ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 1. KHÁI NIỆM, VỊ TRÍ VÀ CHỨC NĂNG CỦA GIA ĐÌNH 1.1. Khái niệm gia đình 1.2. Vị trí của gia đình trong xã hội 1.3. Chức năng cơ bản của gia đình	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Đọc trước tài liệu mục 3, chương 7	G1.7 G2.1 G2.2 G3.1 G3.1 G3.3



	2. CƠ SỞ XÂY DỰNG GIA ĐÌNH TRONG THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 2.1. Cơ sở kinh tế - xã hội 2.2. Cơ sở chính trị - xã hội 2.3. Cơ sở văn hóa		
15/ 2 tiết	Chương 7: VẤN ĐỀ GIA ĐÌNH TRONG THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI (tiếp theo) 3. XÂY DỰNG GIA ĐÌNH VIỆT NAM TRONG THỜI KỲ QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI 3.1. Sự biến đổi gia đình Việt Nam trong thời kỳ quá độ lên chủ nghĩa xã hội 3.2. Phương hướng cơ bản xây dựng và phát triển gia đình Việt Nam trong thời kỳ quá độ lên chủ nghĩa xã hội. - Ôn tập thi cuối kỳ	Dạy: thuyết giảng, phát vấn, chấm phần biện. Học ở lớp: Thảo luận và phát biểu trên lớp. Học ngoài lớp: Ôn tập thi cuối kỳ	G1.7 G2.1 G2.2 G3.1 G3.1 G3.3

(Các nội dung giảng dạy theo buổi học, thể hiện sự tương quan với các CDR của môn học, các hoạt động dạy và học (ở lớp, ở nhà) và các bài đánh giá của môn học)

Lý thuyết

(1): Thông tin về tuần/buổi học. (2): Liệt kê nội dung giảng dạy theo chương, mục

(3): Liệt kê CDR liên quan của môn học (ghi ký hiệu Gx.x),

(4): Liệt kê các hoạt động dạy và học (ở lớp, ở nhà), bao gồm đọc trước tài liệu (nếu có yêu cầu)

(5): Liệt kê các bài đánh giá liên quan (ghi ký hiệu Ax.x)

Thực hành

Tuần/Buổi học (1)	Nội dung (2)	CDR môn học (3)	Hoạt động dạy và học (4)	Bài đánh giá (5)

(1): Thông tin về tuần/buổi học. (2): Liệt kê nội dung thực hành theo bài thực hành

(3): Liệt kê CDR liên quan của môn học (ghi ký hiệu Gx.x),

(4): Liệt kê các hoạt động dạy và học (ở lớp, ở nhà), bao gồm đọc trước tài liệu (nếu có yêu cầu)

(5): Liệt kê các bài đánh giá liên quan (ghi ký hiệu Ax.x)

7. Quy định của môn học

- Quy định về Bài thuyết trình nhóm GHW:
- + Thành lập nhóm: Số lượng sinh viên tùy tình hình thực tế của lớp, giảng viên quy định. Hạn chót đăng ký đề tài nhóm Quản lý trên forum là Buổi 2 hoặc trực tiếp nộp cho GV buổi 1.
- + Các nhóm thuyết trình theo thứ tự, giảng viên quy định. Lưu ý các nhóm cần có mặt đủ và mang theo tất cả các tài liệu liên quan đến GHW khi đi thuyết trình.
- + Hình thức nộp bài: Nộp file và biên bản làm việc nhóm qua mail cho GV.
- Quy định về giờ giấc, chuyên cần, kỷ luật trong khóa học:
- + Lên lớp đúng giờ, dự tối thiểu 80% thời gian học trên lớp (chỉ được phép vắng mặt tối đa 20% số tiết học). Nếu vắng quá số tiết quy định sẽ bị cấm thi theo quy chế.
- + Có đầy đủ các phần điểm quá trình, điểm kiểm tra giữa kỳ điểm thi kết thúc học phần.
- Khi có các thắc mắc liên quan môn học, sinh viên có thể liên lạc với quản lý Bộ môn Lý luận và khoa học chính trị và Khoa Chính trị - Hành chính qua email: daotao.spas@vnuhcm.edu.vn

8. Phụ trách môn học

- Khoa/Bộ môn: Bộ môn Lý luận và khoa học chính trị - Khoa Chính trị - Hành chính (ĐHQG TP.HCM)
- Địa chỉ và email liên hệ: Tầng 7, nhà Điều hành ĐHQG. Khu phố 1. Phường Linh Trung, TP. Thủ Đức. Đại chỉ mail: daotao.spas@vnuhcm.edu.vn

KT. Trưởng Bộ môn
Phó trưởng Bộ môn (phụ trách)



TS. Mạch Thị Khánh Trinh

Tp. Hồ Chí Minh, ngày 01 tháng 10 năm 2023

KT. TRƯỞNG KHOA
PHÓ TRƯỞNG KHOA



TS. Nguyễn Đình Quốc Cường

ĐỀ CƯƠNG CHI TIẾT MÔN HỌC
(DÀNH CHO TRƯỜNG ĐẠI HỌC QUỐC TẾ, ĐHQG-HCM)

1. THÔNG TIN CHUNG (General information)

- Tên môn học:
- + Tiếng Việt
 - + Tiếng Anh
- Mã số môn học:
- Thuộc khối kiến thức/kỹ năng:
- ☒ Kiến thức cơ bản/giáo dục đại cương
- ☐ Kiến thức chuyên ngành
- ☐ Môn học chuyên về kỹ năng chung
- Số tín chỉ:
- + Lý thuyết
 - + Thực hành (thuyết trình)
- Môn học tiên quyết:
- Môn học trước:
- Môn học song hành:
- Lịch sử Đảng Cộng sản Việt Nam**
History of Vietnamese communist party
PE018IU
- ☐ Kiến thức cơ sở ngành
- ☐ Kiến thức khác
- ☐ Môn học đồ án/luận văn tốt nghiệp
- 02
- 20 tiết
- 10 tiết (trên lớp)
- 60 tiết (về nhà)
- Không
- Không

2. MÔ TẢ MÔN HỌC (Course description)

Môn học nằm trong khối kiến thức giáo dục đại cương thuộc mảng lý luận chính trị. Môn học với những kiến thức cơ bản, hệ thống về Lịch sử Đảng Cộng sản Việt Nam như: sự ra đời của Đảng Cộng sản Việt Nam, sự lãnh đạo của Đảng trong đấu tranh giành chính quyền, giải phóng dân tộc và xây dựng chủ nghĩa xã hội từ năm 1930 đến năm nay.

3. MỤC TIÊU MÔN HỌC (Course Goals)

Mục tiêu (1)	Mô tả mục tiêu (2)	CĐR của môn học tương ứng CTĐT (3)
G1	Về kiến thức Sinh viên hiểu được những tri thức cơ bản, có tính hệ thống về sự ra đời của Đảng Cộng sản Việt Nam (1920-1930), sự lãnh đạo của Đảng đối với cách mạng Việt Nam trong thời kỳ đấu tranh giành chính quyền chính quyền (1930-1945), trong hai cuộc kháng chiến chống thực dân	

	Pháp và đế quốc Mỹ xâm lược (1945-1975), trong sự nghiệp xây dựng, bảo vệ Tổ quốc thời kỳ cả nước quá độ lên chủ nghĩa xã hội, tiến hành công cuộc đổi mới (1975 đến nay).	
G2	Về kỹ năng Sinh viên vận dụng phương pháp tư duy khoa học về lịch sử để lựa chọn, khái quát hóa tài liệu nghiên cứu, học tập môn học; đồng thời sinh viên phân tích, đánh giá, vận dụng kiến thức lịch sử vào công tác thực tiễn.	
G3	Về thái độ/năng lực tự chủ và trách nhiệm Sinh viên đánh giá được sự thật khách quan và nâng cao lòng tự hào, niềm tin đối với sự nghiệp lãnh đạo của Đảng và phê phán những quan niệm sai trái về lịch sử của Đảng.	

4. CHUẨN ĐẦU RA MÔN HỌC (Course learning outcomes)

CDR (1)	Mô tả CDR (2)	Mức độ giảng dạy (3)
G1.1	Hiểu được đối tượng, chức năng, nhiệm vụ nội dung và phương pháp nghiên cứu, học tập môn Lịch sử Đảng Cộng sản Việt Nam	I,U
G1.2	Hiểu được quá trình ra đời của Đảng Cộng sản Việt Nam (1920-1930), nội dung cơ bản, giá trị lịch sử của Cương lĩnh chính trị đầu tiên của Đảng và quá trình Đảng lãnh đạo cuộc đấu tranh giành độc lập, giành chính quyền (1930-1945)	I, T,U
G1.3	Hiểu được quá trình lãnh đạo của Đảng đối với hai cuộc kháng chiến chống thực dân Pháp và đế quốc Mỹ xâm lược, hoàn thành giải phóng dân tộc, thống nhất đất nước thời kỳ 1945-1975	I, T,U
G1.4	Hiểu được quá trình phát triển đường lối và sự lãnh đạo của Đảng để đưa cả nước quá độ lên chủ nghĩa xã hội và tiến hành công cuộc đổi mới từ sau ngày thống nhất đất nước năm 1975 đến nay. Những thành tựu và bài học kinh nghiệm trong quá trình lãnh đạo từ năm 1930 đến nay.	I, T,U
G2.1	Vận dụng kiến thức đã học để nhận thức, hành động theo đường lối của Đảng.	U
G2.2	Vận dụng, phân tích với tư duy độc lập trong nghiên cứu nhằm giải quyết các vấn đề khi làm việc theo nhóm và trình bày kết quả nghiên cứu.	U
G3.1	Đánh giá được sự lãnh đạo đúng đắn của Đảng Cộng sản Việt Nam đối với cách mạng nước ta. Quyết tâm phấn đấu thực hiện đường lối cách mạng của Đảng.	U

G3.2	Đánh giá được tầm quan trọng của sự nghiêm túc trong học tập và nghiên cứu, tự rèn luyện bản thân trở thành người có phẩm chất chính trị và đạo đức tốt.	U

5. ĐÁNH GIÁ MÔN HỌC

Thành phần đánh giá (1)	Bài đánh giá (2)	CĐR môn học (3)	Tỷ lệ % (4)
A1. Đánh giá quá trình	- Chuyên cần (A1.1) - Tham gia học tập trên lớp tích cực, hăng hái phát biểu (A1.2) - Thuyết trình nhóm (A1.3)	G1.1, G1.2-G1.3, G2.1, G2.2-G2.3 G3.1-G3.2	30%
A2. Đánh giá giữa kỳ	Kiểm tra giữa kỳ (A2.1)	G1.1 G2.1-G2.2, G3.1-G3.2	20%
A3. Đánh giá cuối kỳ	Thi cuối học kỳ (A3.1)	G1.2-G1.3, G2.1-G2.2, G3.1-G3.2	50%

6. KẾ HOẠCH GIẢNG DẠY CHI TIẾT

Tuần/Buổi học (1)	Nội dung (2)	Hoạt động dạy và học (3)	CĐRMH (4)
1/2 tiết	Chương nhập môn ĐỐI TƯỢNG, CHỨC NĂNG, NHIỆM VỤ, NỘI DUNG VÀ PHƯƠNG PHÁP NGHIÊN CỨU, HỌC TẬP LỊCH SỬ ĐẢNG CỘNG SẢN VIỆT NAM I. Đối tượng nghiên cứu của môn học lịch sử Đảng Cộng sản Việt Nam II. Chức năng, nhiệm vụ của môn học lịch sử Đảng Cộng sản Việt Nam III. Phương Pháp nghiên cứu, học tập môn lịch sử Đảng Cộng sản Việt Nam	Hoạt động dạy: - Giới thiệu đề cương môn học - Giới thiệu nội dung đề tài thuyết trình nhóm) - Trình chiếu, thuyết giảng Hoạt động học: - Chia nhóm - Giới thiệu nhóm học tập - Nghe giảng, phát biểu - Đọc trước mục 1, 2 phần I của chương 1	G1.1 G2.1 G2.2 G3.1 G3.2
	Chương 1 ĐẢNG CỘNG SẢN VIỆT NAM RA ĐỜI VÀ LÃNH ĐẠO	Hoạt động dạy: - Trình chiếu, thuyết giảng mục	

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2/2 tiết	ĐẤU TRANH GIÀNH CHÍNH QUYỀN (1930-1945) I. Đảng cộng sản Việt Nam ra đời và cương lĩnh chính trị đầu tiên của Đảng (tháng 2 – 1930) 1. Bối cảnh lịch sử 2. Nguyễn Ái Quốc chuẩn bị các điều kiện để thành lập Đảng	1,2 phần I của chương 1 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 3,4 phần I của chương 1	G1.2 G2.1 G2.2 G3.1 G3.2
3/2 tiết	Chương 1 (tiếp theo) I. Đảng cộng sản Việt Nam ra đời và cương lĩnh chính trị đầu tiên của Đảng (tháng 2 – 1930) (tt) 3. Thành lập Đảng Cộng sản Việt Nam và Cương lĩnh chính trị đầu tiên của Đảng 4. Ý nghĩa lịch sử của việc thành lập Đảng Cộng sản Việt Nam	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 3,4 phần I của chương 1 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 1, 2 phần II của chương 1	G1.1 G1.2 G2.1 G2.2 G3.1 G3.2
4/2 tiết	Chương 1 (tiếp theo) II. Lãnh đạo đấu tranh giành chính quyền (1930-1945) 1. Phong trào cách mạng 1930-1935 và khôi phục phong trào 1932-1935 2. Phong trào dân chủ 1936-1939	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 1, 2 phần II của chương 1 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 3, 4 phần II của chương 1	G1.2 G2.1 G2.2 G3.1 G3.2

5/2 tiết	II. Lãnh đạo đấu tranh giành chính quyền (1930-1945) (tt) 3. Phong trào giải phóng dân tộc 1939-1945 4. Tính chất, ý nghĩa và kinh nghiệm của Cách mạng Tháng Tám năm 1945	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 3, 4 phần II của chương 1 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 1,2 phần I của chương 2	G1.2 G1.3 G2.1 G2.2 G3.1 G3.2
6/2 tiết	Chương 2 ĐẢNG LÃNH ĐẠO HAI CUỘC KHÁNG CHIẾN, HOÀN THÀNH GIẢI PHÓNG DÂN TỘC, THỐNG NHẤT ĐẤT NƯỚC (1945-1975) I. Lãnh đạo xây dựng, bảo vệ chính quyền cách mạng, kháng chiến chống thực dân Pháp xâm lược 1945-1954 1. Xây dựng và bảo vệ chính quyền cách mạng 1945-1946 2. Đường lối kháng chiến toàn quốc và quá trình tổ chức thực hiện từ năm 1946 đến năm 1950	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 1, 2 phần I của chương 2 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 3, 4 phần I của chương 2	G1.3 G2.1 G2.2 G3.1 G3.2
7/2 tiết	Chương 2 (tiếp theo) I. Lãnh đạo xây dựng, bảo vệ chính quyền cách mạng, kháng chiến chống thực dân Pháp xâm lược 1945-1954 (tt) 3. Đẩy mạnh cuộc kháng chiến đến thắng lợi 1951-1954 4. Ý nghĩa lịch sử và kinh nghiệm của Đảng trong lãnh đạo kháng chiến chống Pháp và can thiệp Mỹ	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 3, 4 phần I của chương 2 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 1 phần II của chương 2	G1.3 G2.1 G2.2 G3.1 G3.2

8/2 tiết	Chương 2 (tiếp theo) II. Lãnh đạo xây dựng chủ nghĩa xã hội ở miền bắc và kháng chiến chống đế quốc Mỹ xâm lược, giải phóng miền nam, thống nhất đất nước (1954-1975) <i>1. Sự lãnh đạo của Đảng đối với cách mạng hai miền Nam – Bắc 1954-1965</i>	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 1 phần II của chương 2 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 2,3 phần II của chương 2	G1.3 G2.1 G2.2 G3.1 G3.2
9/2 tiết	Chương 2 (tiếp theo) II. Lãnh đạo xây dựng chủ nghĩa xã hội ở miền bắc và kháng chiến chống đế quốc Mỹ xâm lược, giải phóng miền nam, thống nhất đất nước (1954-1975) (tt) <i>2. Lãnh đạo cách mạng cả nước giai đoạn 1965-1975</i> <i>3. Ý nghĩa lịch sử và kinh nghiệm lãnh đạo của Đảng thời kỳ 1954-1975</i>	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 2,3 phần II của chương 2 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Ôn tập nội dung chương 1,2	G1.3 G2.1 G2.2 G3.1 G3.2
10/2 tiết	Chương 3 ĐẢNG LÃNH ĐẠO CẢ NƯỚC QUÁ ĐỘ LÊN CHỦ NGHĨA XÃ HỘI VÀ TIẾN HÀNH CÔNG CUỘC ĐỔI MỚI (1975 ĐẾN NAY) I. Lãnh đạo cả nước xây dựng chủ nghĩa xã hội và bảo vệ tổ quốc (1975-1986) <i>1. Xây dựng chủ nghĩa xã hội và bảo vệ Tổ quốc 1975-1981</i>	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 1 phần I của chương 3 - Đặt vấn đề và giải quyết vấn đề - Tổ chức kiểm tra giữa kỳ Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Thực hiện kiểm tra giữa kỳ - Đọc trước mục 2	G1.4 G2.1 G2.2 G3.1 G3.2

		phần I của chương 3	
11/2 tiết	Chương 3 (tiếp theo) I. Lãnh đạo cả nước xây dựng chủ nghĩa xã hội và bảo vệ tổ quốc (1975-1986) (tt) 1. <i>Xây dựng chủ nghĩa xã hội và bảo vệ Tổ quốc 1975-1981 (tt)</i> 2. <i>Đại hội đại biểu toàn quốc lần thứ V của Đảng và các bước đột phá tiếp tục đổi mới kinh tế 1982-1986</i>	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 1 phần I của chương 3 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 1 phần II của chương 3	G1.4 G2.1 G2.2 G3.1 G3.2
12/2 tiết	Chương 3 (tiếp theo) II. Lãnh đạo công cuộc đổi mới, đẩy mạnh công nghiệp hóa, hiện đại hóa và hội nhập quốc tế (1986 đến nay) 1. <i>Đổi mới toàn diện, đưa đất nước ra khỏi khủng hoảng kinh tế - xã hội 1986-1996</i>	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 1 phần II của chương 3 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 2 phần II của chương 3	G1.4 G2.1 G2.2 G3.1 G3.2
13/2 tiết	Chương 3 (tiếp theo) II. Lãnh đạo công cuộc đổi mới, đẩy mạnh công nghiệp hóa, hiện đại hóa và hội nhập quốc tế (1986 đến nay) (tt) 1. <i>Đổi mới toàn diện, đưa đất nước ra khỏi khủng hoảng kinh tế - xã hội 1986-1996 (tt)</i> 2. <i>Tiếp tục công cuộc đổi mới, đẩy mạnh công nghiệp hóa, hiện đại hóa và hội nhập quốc tế 1996 đến nay</i>	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 1, 2 phần II của chương 3 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước mục 3 phần II của chương	G1.4 G2.1 G2.2 G3.1 G3.2

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14/2 tiết	Chương 3 (tiếp theo) II. Lãnh đạo công cuộc đổi mới, đẩy mạnh công nghiệp hóa, hiện đại hóa và hội nhập quốc tế (1986 đến nay) (tt) 2. Tiếp tục công cuộc đổi mới, đẩy mạnh công nghiệp hóa, hiện đại hóa và hội nhập quốc tế 1996 đến nay (tt) 3. Thành tựu, kinh nghiệm của công cuộc đổi mới	Hoạt động dạy: - Trình chiếu, thuyết giảng mục 2,3 phần II của chương 3 - Đặt vấn đề và giải quyết vấn đề Hoạt động học: - Nghe giảng, thuyết trình, thảo luận nhóm. - Đọc trước phần kết luận	G1.4 G2.1 G2.2 G3.1 G3.2
15/2 tiết	KẾT LUẬN 1. Những thắng lợi vĩ đại của cách mạng Việt Nam. 2. Những bài học lớn về sự lãnh đạo của Đảng	Hoạt động dạy: - Hướng dẫn sv tự học - Ôn tập tổng kết môn học - Công bố bảng điểm chi tiết các hoạt động - Giải đáp thắc mắc Hoạt động học: - Nghe giảng, phát biểu - Ôn tập toàn bộ nội dung môn học tại nhà	G1.1 G1.2 G1.3 G1.4 G2.1 G2.2 G3.1 G3.2

7. QUY ĐỊNH CỦA MÔN HỌC (Course requirements and expectations)

- Quy định về Bài thuyết trình nhóm:
 - Thành lập nhóm: Số lượng sinh viên tùy vào sĩ số lớp, do giảng viên quy định. Hạn chót đăng ký đề tài nhóm Quản lý trên forum/Moodle là Buổi 2 hoặc trực tiếp nộp cho GV buổi 1.
 - Các nhóm thuyết trình theo thứ tự được phân công. Lưu ý các nhóm cần có mặt đủ và mang theo tất cả các tài liệu liên quan khi thuyết trình.
 - Hình thức nộp bài: Nộp file và biên bản làm việc nhóm qua mail cho GV
- Quy định về giờ giấc, chuyên cần, kỷ luật trong khóa học: Lên lớp đúng giờ, dự tối thiểu 80% thời gian học trên lớp (chỉ được phép vắng mặt tối đa 20% số tiết học). Nếu vắng quá số tiết quy định sẽ bị điểm 0 chuyên cần.

8. TÀI LIỆU HỌC TẬP, THAM KHẢO (Reference)

Giáo trình:

[1] Bộ Giáo dục và Đào tạo (2021), *Giáo trình Lịch sử Đảng Cộng sản Việt Nam* (dành cho bậc đại học hệ không chuyên lý luận chính trị), NXB. Chính trị Quốc gia Sự Thật, Hà Nội.

Tài liệu khác:

[1] Hội đồng Trung ương chỉ đạo biên soạn giáo trình quốc gia các môn khoa học Mác – Lênin, Tư tưởng Hồ Chí Minh (2019), *Giáo trình Lịch sử Đảng Cộng sản Việt Nam* (tái bản có sửa chữa, bổ sung), Nxb. Chính trị quốc gia, Hà Nội.

[2] Bộ Giáo dục và Đào tạo (2017), *Giáo trình Đường lối cách mạng của Đảng Cộng sản Việt Nam*, Nxb Chính trị quốc gia, Hà Nội.

Tp. Hồ Chí Minh, ngày 01 tháng 01 năm 2023

KT. Trưởng Bộ môn
Phó trưởng Bộ môn



Lê Văn Thông

KT. TRƯỞNG KHOA
PHÓ TRƯỞNG KHOA



TS. Nguyễn Đình Quốc Cường

ĐỀ CƯƠNG CHI TIẾT HỌC PHẦN
(DÀNH CHO TRƯỜNG ĐẠI HỌC QUỐC TẾ)

1. Thông tin về giảng viên (cung cấp cho sinh viên khi giảng dạy)
 - Họ và tên:
 - Chức danh, học hàm, học vị:
 - Đơn vị công tác: **Khoa Chính trị - Hành chính, ĐHQG-HCM**
 - Thời gian và địa điểm làm việc:...
 - Địa chỉ liên hệ:
 - Điện thoại, email:
 - Thông tin về trợ giảng (nếu có) (họ và tên, địa chỉ liên hệ, điện thoại, e-mail):
2. Thông tin chung về học phần
 - Mã học phần: PE019IU
 - Tên học phần: **Tư tưởng Hồ Chí Minh**
 - Tên học phần bằng tiếng Anh: **Ho Chi Minh's Thoughts**
 - Số tín chỉ: 02 (30 tiết).
 - Cấu trúc/cơ cấu học phần:
 - Số tiết lý thuyết: *30 tiết*
 - Số tiết thực hành:
 - Số tiết bài tập:
 - Khác: Số tiết tự học: *60 tiết*
 - Loại học phần thuộc khối kiến thức (check vào các ô):
 - Kiến thức đại cương: ☒
 - Kiến thức cơ sở ngành: ☐
 - Kiến thức chuyên ngành: ☐
 - Kiến thức bổ trợ: ☐
 - Khóa luận tốt nghiệp: ☐
 - Đồ án/dự án/seminar tốt nghiệp: ☐
 - Khác:....
 - Các học phần tiên quyết: **không** hoặc **có**, nếu **có** thì điền các thông tin sau
 - Các học phần học trước học phần này: **không** hoặc **có**, nếu **có** thì điền các thông tin sau
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 -
 - Học phần song hành: **không** hoặc **có**, nếu **có** thì điền các thông tin sau
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-
 - Các yêu cầu khác (nếu có):.....
 - Bộ môn phụ trách học phần: Lý luận và Khoa học chính trị, Khoa Chính trị - Hành chính
- 3. Mô tả vắn tắt nội dung học phần:** (trình bày ngắn gọn vai trò, vị trí học phần/môn học, kiến thức sẽ trang bị cho sinh viên, quan hệ với các học phần/môn học khác trong chương trình đào tạo)

Môn học thuộc phần kiến thức giáo dục đại cương trong khối kiến thức cơ bản về lý luận chính trị. Trang bị cho sinh viên những kiến thức cơ bản về: Đối tượng, phương pháp nghiên cứu và ý nghĩa học tập môn tư tưởng Hồ Chí Minh; về cơ sở, quá trình hình thành và phát triển tư tưởng Hồ Chí Minh; về độc lập dân tộc và chủ nghĩa xã hội; về Đảng Cộng sản và Nhà nước Việt Nam; về đại đoàn kết dân tộc và đoàn kết quốc tế; về văn hóa, đạo đức, con người.

4. Mục tiêu của học phần

- Mục tiêu chung:

+ Sinh viên **hiểu** được những nội dung cơ bản của tư tưởng Hồ Chí Minh về con đường cách mạng Việt Nam; về độc lập dân tộc gắn liền với chủ nghĩa xã hội; về Đảng Cộng sản Việt Nam; về Nhà nước pháp quyền xã hội chủ nghĩa Việt Nam; về đại đoàn kết dân tộc và đoàn kết quốc tế; về văn hóa, đạo đức và con người...

+ Sinh viên **vận dụng** được những kiến thức cơ bản của tư tưởng Hồ Chí Minh vào trong nhận thức và trong hoạt động thực tiễn của bản thân.

+ Sinh viên **phân tích, đánh giá** được giá trị, tính khoa học cách mạng và nhân văn của tư tưởng Hồ Chí Minh đối với thực tiễn Việt Nam và nhân loại.

- Mục tiêu cụ thể:

Ký hiệu mục tiêu của học phần (G)	Mô tả/nội dung mục tiêu học phần	Mức độ năng lực đạt được (theo thang đánh giá Bloom)	Ghi chú
KIẾN THỨC			
G1.1	Sinh viên hiểu những kiến thức cơ bản về khái niệm; cơ sở, quá trình hình thành và phát triển tư tưởng Hồ Chí Minh; tư tưởng Hồ Chí Minh về độc lập dân tộc gắn liền với chủ nghĩa xã hội;	2	
G1.2	Sinh viên hiểu những nội dung cơ bản của tư tưởng Hồ Chí Minh về Đảng Cộng sản Việt Nam; về Nhà nước của nhân dân, do nhân dân, vì nhân dân; về sự vận dụng của Đảng Cộng sản Việt Nam trong cách mạng dân tộc dân chủ và cách mạng xã hội chủ nghĩa, trong công cuộc đổi mới đất nước hiện nay.	2	
G1.3	Sinh viên hiểu những nội dung cơ bản của tư tưởng Hồ Chí Minh về đại đoàn kết dân tộc và đại đoàn kết quốc tế; hiểu những nội dung cơ bản của tư tưởng Hồ Chí Minh về văn hóa, đạo đức và con	2	

	người.		
KỸ NĂNG			
G2.1	Sinh viên vận dụng giá trị của tư tưởng Hồ Chí Minh trong hoạt động lý luận và thực tiễn; Sinh viên phân tích, nhận diện và phản bác những luận điệu xuyên tạc về tư tưởng Hồ Chí Minh về độc lập dân tộc và chủ nghĩa xã hội.	3	
G2.2	Sinh viên phân tích được một cách khoa học những vấn đề về xây dựng Đảng cộng sản Việt Nam và xây dựng Nhà nước pháp quyền xã hội chủ nghĩa của nhân dân, do nhân dân, vì nhân dân trong thời kỳ đổi mới đất nước.	4	
G2.3	Sinh viên vận dụng tư tưởng Hồ Chí Minh về đại đoàn kết dân tộc và đoàn kết quốc tế trong giai đoạn hiện nay; Sinh viên vận dụng được phương pháp tư duy mới trong học tập, nghiên cứu; tự mình biết đào sâu lý luận gắn với thực tiễn với tinh thần độc lập, sáng tạo.	3	
THÁI ĐỘ			
G3.1	Sinh viên vận dụng, học tập và làm theo tư tưởng, đạo đức, phong cách Hồ Chí Minh trong học tập và cuộc sống hằng ngày.	3	
G3.2	Sinh viên đánh giá được bản chất khoa học và cách mạng của tư tưởng Hồ Chí Minh, từ đó có bản lĩnh chính trị vững vàng, có lòng yêu nước nồng nàn, trung thành với mục tiêu lý tưởng của Đảng, của dân tộc. Trung thực, thẳng thắn, xây dựng tập thể đoàn kết. Trân trọng, giữ gìn và phát huy di sản tư tưởng của Hồ Chí Minh trong hoạt động thực tiễn.	5	
G3.3	Sinh viên vận dụng bản chất khoa học và cách mạng của tư tưởng Hồ Chí Minh trong việc đấu tranh chống lại các âm mưu xuyên tạc tư tưởng Hồ Chí Minh, chủ trương, đường lối của Đảng. Có hành vi đạo đức chuẩn mực. Có năng lực học tập, tự nghiên cứu các vấn đề chuyên môn.	3	

TH
KH
TH
DAI

(*) 1. Ghi nhớ (Remembering), 2. Hiểu (Understanding), 3. Vận dụng (Applying), 4. Phân tích (Analyzing), 5. Đánh giá (Evaluating), 6. Sáng tạo (Creating).

5. Chuẩn đầu ra (CĐR) của học phần

Thứ tự các	Ký hiệu CĐR	Mô tả/nội dung CĐR học phần	Mức độ giảng dạy	Liên kết giữa CĐR	Liên kết giữa CĐR học

CĐR	học phần (CHP)		(I, T, U) *	học phần và mục tiêu học phần	phần và CĐR chương trình đào tạo
KIẾN THỨC					
1	CHP1	Hiểu được khái niệm, đối tượng, phương pháp nghiên cứu và ý nghĩa học tập môn tư tưởng Hồ Chí Minh.	I	G1.1	
2	CHP2	Hiểu được cơ sở, quá trình hình thành và phát triển tư tưởng Hồ Chí Minh.	I, T, U	G1.1	
3	CHP3	Hiểu được kiến thức cơ bản tư tưởng Hồ Chí Minh về độc lập dân tộc và chủ nghĩa xã hội. Sự vận dụng của Đảng vào trong sự nghiệp cách mạng hiện nay.	I, T,U	G1.1	
4	CHP4	Hiểu được kiến thức cơ bản tư tưởng Hồ Chí Minh về Đảng Cộng Sản Việt Nam và Nhà nước của nhân dân, do nhân dân, vì nhân dân. Sự vận dụng tư tưởng Hồ Chí Minh vào công tác xây dựng Đảng và xây dựng Nhà nước.	I, T,U	G1.2	
5	CHP5	Hiểu được kiến thức cơ bản tư tưởng Hồ Chí Minh về đại đoàn kết toàn dân tộc và đoàn kết quốc tế. Sự vận dụng của Đảng vào trong sự nghiệp cách mạng hiện nay;	I, T,U	G1.3	
6	CHP6	Hiểu được kiến thức cơ bản tư tưởng Hồ Chí Minh về văn hóa, đạo đức, con người. Sự vận dụng tư tưởng Hồ Chí Minh trong việc xây dựng văn hóa, đạo đức, con người Việt Nam hiện nay.	I, T,U	G1.3	
KỸ NĂNG					
7	CHP7	Phân tích mang tính khái quát hóa để rút ra <i>Từ khóa tri thức</i> đối với mỗi nội dung và tư duy có hệ thống.	T, U	G2.1; G2.2; G2.3	
8	CHP8	Vận dụng kiến thức học phần để trình bày, thuyết	U	G2.1; G2.2;	

		minh, phản biện, tranh luận, hùng biện những tri thức lý luận đang học tập, nghiên cứu dựa trên thực tiễn.		G2.3	
9	CHP9	Vận dụng kiến thức học phần để giao tiếp xã hội, hợp tác và làm việc nhóm, chia sẻ tri thức và kinh nghiệm, khả năng điều hành nhóm làm việc.	U	G2.1; G2.2; G2.3	
THÁI ĐỘ					
10	CHP10	Phân tích, đánh giá và có ý thức trách nhiệm bảo vệ tinh khoa học, cách mạng, nhân văn của tư tưởng Hồ Chí Minh.	T, U	G3.1 G3.2 G3.3	
11	CHP11	Vận dụng kiến thức đã học gắn với trách nhiệm cá nhân đối với tập thể, cộng đồng.	U	G3.1 G3.2 G3.3	
12	CHP12	Phân tích, đánh giá được sự cần thiết của việc học tập, nghiên cứu suốt đời và vận dụng tư tưởng Hồ Chí Minh trong cuộc sống.	T, U	G3.1 G3.2 G3.3	

(*) I (Introduce): giới thiệu; T (Teach): dạy; U (Utilize): sử dụng

6. Hình thức, phương pháp và trọng số đánh giá kết quả học phần

Hình thức đánh giá	Nội dung chi tiết	Phương pháp đánh giá (đánh dấu X)				Ký hiệu bài đánh giá	Trọng số đánh giá	Ghi chú
		Viết	Trắc nghiệm	Vấn đáp	Khác			
Đánh giá quá trình	- Chuyên cần - Tham gia học tập trên lớp tích cực, hăng hái phát biểu. -Thuyết trình nhóm					ĐG1 (tổng điểm từ ĐG1.1 đến ĐG1.6)	30%	
Điểm kiểm tra giữa kỳ		X	X	X		ĐG1.1	20%	

Đánh giá tổng kết	Điểm cuối học kỳ	X				ĐG2	50%	Điểm bài thi + điểm thường (tối đa 20%=2 điểm)

7. **Thang điểm đánh giá:** theo thang điểm 100.

8. **Kế hoạch giảng dạy chi tiết của học phần :** Ghi chi tiết đến 2 cấp (chương và bài).

STT Buổi (3 tiết/ buổi)	Tên bài giảng của học phần (Ghi chi tiết tên chương và bài giảng của mỗi chương)	Liên kết với CDR học phần	Hoạt động dạy và học						Phương pháp dạy học (thuyết trình; thảo luận; các phương pháp dạy học tích cực/lấy người học làm trung tâm...)	Bài đánh giá
			Số tiết lên lớp				SV tự nghiên cứu, tự học			
			Lý thuyết	Thực hành/ thực tập	Bài tập	Thảo luận/ khác	Số tiết	Ghi chú (nếu có)		
1/2	Chương 1. Khái niệm, đối tượng, phương pháp nghiên cứu và ý nghĩa học tập môn tư tưởng Hồ Chí Minh		02						Thuyết trình	ĐG1.1; ĐG1.6; ĐG2
2/2	Chương 2. Cơ sở, quá trình hình thành và phát triển tư tưởng Hồ Chí Minh		02						Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
3/2	Chương 2 (tiếp)		01			01			Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
4/2	Chương 2 (tiếp)		02						Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
5/2	Chương 3. Tư tưởng Hồ Chí								Thuyết trình,	ĐG1.1; ĐG1.3;

	Mình về độc lập dân tộc và chủ nghĩa xã hội		02					thảo luận nhóm	ĐG1.5; ĐG1.6; ĐG2
6/2	Chương 3(tiếp)		01			01		Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
7/2	Chương 3(tiếp)		01			01			
8/2	Chương 4. Tư tưởng Hồ Chí Minh về Đảng Cộng sản Việt Nam và Nhà nước của nhân dân, do nhân dân và vì nhân dân		02					Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
9/2	Chương 4 (tiếp)		02					Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
10/2	Chương 4 (tiếp)					02		Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
11/2	Chương 5. Tư tưởng Hồ Chí Minh về đại đoàn kết toàn dân tộc và đoàn kết quốc tế		02					Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
12/2	Chương 5 (tiếp)		01			01		Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
13/2	Chương 6. Tư tưởng Hồ Chí Minh về văn hóa, đạo đức, con người		02					Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
14/2	Chương 6 (tiếp)		02					Thuyết trình, thảo luận nhóm	ĐG1.1; ĐG1.3; ĐG1.5; ĐG1.6; ĐG2
15/2	Chương 6 (tiếp)					02		Thuyết trình, thảo	ĐG1.1; ĐG1.3; ĐG1.5;

									luận nhóm	ĐG1.6; ĐG2
	Tổng cộng số tiết		22	...	...	08	...	...		

9. Tài liệu học tập

STT	Tên tác giả	Năm xuất bản	Tên giáo trình	Tên Nhà xuất bản	Giáo trình chính/Tài liệu tham khảo/Khác	Nơi có thể có tài liệu/trang web
1	Bộ Giáo dục và Đào tạo	2021	<i>Giáo trình Tư tưởng Hồ Chí Minh</i>	Nxb. Chính trị quốc gia Sự thật, Hà Nội.	Giáo trình chính	
2	Hồ Chí Minh	2011	<i>Toàn tập</i>	Nxb. Chính trị quốc gia Sự thật, Hà Nội.	Tài liệu tham khảo	Báo điện tử Đảng Cộng sản Việt Nam, https://hochiminh.vn/tac-pham-cua-ho-chi-minh/ho-chi-minh-toan-tap
3	Hồ Chí Minh	2016	<i>Biên niên tiểu sử</i>	Nxb. Chính trị quốc gia Sự thật, Hà Nội.	Tài liệu tham khảo	

10. Quy định của môn học

- Khi có các thắc mắc liên quan môn học, sinh viên có thể liên lạc với quản lý Bộ môn Lý luận và Khoa học chính trị và Khoa Chính trị - Hành chính qua email: daotao.spas@vnuhcm.edu.vn
- Quy định về Bài thuyết trình nhóm:
 - + Thành lập nhóm: Theo tình hình thực tế của lớp học.
 - + Hạn chót đăng ký đề tài nhóm Quản lý trên forum là Buổi 2.
 - + Bắt đầu từ tuần 4 thuyết trình theo thứ tự. Lưu ý các nhóm cần có mặt đủ và mang theo tất cả các tài liệu liên quan đến bài tập khi đi thuyết trình.
 - + Hình thức nộp bài: Nộp file và biên bản làm việc nhóm qua mail cho GV
- Quy định về đánh giá môn học: theo Quy định về việc giảng dạy và học tập các môn Lý luận chính trị của khoa Chính trị - Hành chính.

KT. Trưởng Bộ môn
Phó trưởng Bộ môn



Lê Văn Thông

Tp. Hồ Chí Minh, ngày 01 tháng 10 năm 2023

KT. TRƯỞNG KHOA
PHÓ TRƯỞNG KHOA



TS. Nguyễn Đình Quốc Cường



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
Department of Mathematics

COURSE SYLLABUS
Course Name: Calculus 2

Course Code: **MA003IU**

1. General information

Course designation	This course is a continuation of Calculus 1. Its aim is to equip student with basic concepts of sequence, series, vector functions, functions of several variables, multiple integrals and their applications
Semester(s) in which the course is taught	1, 2
Person responsible for the course	<i>Assoc. Prof. Mai Duc Thanh, Assoc. Prof. Tran Vu Khanh, Dr. Nguyen Minh Quan, Dr. Nguyen Anh Tu, Dr. Ta Quoc Bao.</i>
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lectures, assignments
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 120 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 60 (lectures) Private study including examination preparation, specified in hours ¹ : 60
Credit points	4
Pre-courses	Calculus 1

¹ When calculating contact time, each contact hour is counted as a full hour because the organization of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course objectives	1. To provide students with the main ideas and techniques of calculus. These include sequences, series, functions of several variables, optimal problems, multiple integrals, vector calculus. 2. To introduce practical applications of these ideas and techniques, through practical examples taken from many areas of engineering, business, and life sciences. 3. To develop skills in mathematical modeling and problem solving, ability to think logically, and adapt these skills creatively to new situations									
Course learning outcomes	Upon the successful completion of this course students will be able to: <table><tr><th>Competency level</th><th>Course learning outcome (CLO)</th></tr><tr><td>Knowledge</td><td> CLO1. Have basic knowledge of series, functions of several variables, multiple integrals (Program outcomes: a) CLO2. Have basic knowledge of vector calculus (Program outcomes: a) </td></tr><tr><td>Skill</td><td> CLO3. Can compute partial derivatives, multiple integral (Program outcomes: a, j) CLO4. Can show the convergence of a sequence and a series and use power series to simplify computation. Can show the optimal problem using partial derivatives, can find the volume of an object in higher dimension by using the multiple integrals (Program outcomes: i, h) </td></tr><tr><td>Attitude</td><td> CLO5. Confident when dealing with partial derivatives, multiple integrals. Comfortable with using partial derivatives and multiple integrals in practical situations. (Program outcome: j, k) </td></tr></table>		Competency level	Course learning outcome (CLO)	Knowledge	CLO1. Have basic knowledge of series, functions of several variables, multiple integrals (Program outcomes: a) CLO2. Have basic knowledge of vector calculus (Program outcomes: a)	Skill	CLO3. Can compute partial derivatives, multiple integral (Program outcomes: a, j) CLO4. Can show the convergence of a sequence and a series and use power series to simplify computation. Can show the optimal problem using partial derivatives, can find the volume of an object in higher dimension by using the multiple integrals (Program outcomes: i, h)	Attitude	CLO5. Confident when dealing with partial derivatives, multiple integrals. Comfortable with using partial derivatives and multiple integrals in practical situations. (Program outcome: j, k)
Competency level	Course learning outcome (CLO)									
Knowledge	CLO1. Have basic knowledge of series, functions of several variables, multiple integrals (Program outcomes: a) CLO2. Have basic knowledge of vector calculus (Program outcomes: a)									
Skill	CLO3. Can compute partial derivatives, multiple integral (Program outcomes: a, j) CLO4. Can show the convergence of a sequence and a series and use power series to simplify computation. Can show the optimal problem using partial derivatives, can find the volume of an object in higher dimension by using the multiple integrals (Program outcomes: i, h)									
Attitude	CLO5. Confident when dealing with partial derivatives, multiple integrals. Comfortable with using partial derivatives and multiple integrals in practical situations. (Program outcome: j, k)									

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (4 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Sequences and Convergence	1	I, T
	Series	1	I, T
	Tests for Convergence	1	T, U
	Power series	1	T, U
	Representations of Functions as Power series	1	T, U
	Taylor and Maclaurin series	1	T, U
	Vector Functions and Space Curves, Limit and continuity of vector functions	1	I, T
	Derivatives and Integrals of vector functions, Length of space curves	1	T, U
	Functions of Several Variables, Limits and Continuity	1	I,T
	Partial Derivatives, Tangent Plane and Linear Approximations	1	T, U
	Chain Rules, Directional Derivatives and Gradient	1	T, U
	Maximum and Minimum Values of Functions of two variables	1	T, U
Lagrange Multipliers and Applications	1	T, U	
Double Integrals in Rectangles, Iterated Integrals	1	I, T	
Double, Triple Integrals in General regions and Applications	2	T,U	
Examination forms	Written examination		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this course.		
Reading list	J. Stewart, <i>Calculus</i> , Thomson Learning, 7 th edition, 2012.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (1-6) is shown in the following table:

	PLO						
CLO	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
1	4	4					
2	4	3					
3			4	3			
4			3	3			
5							3

3. Planned learning activities and teaching methods

Week	Topics	CLO	Assessment	Teaching and Learning activities
1	Sequences, Series, The Integral Test and Estimates Sums, The comparison Tests	2, 4	HW	Lectures and Quiz
2	Alternating Series, Absolute Convergence and the Ratio and Roots Tests, Strategy for Testing Series	2, 4	HW	Lectures and Quiz
3	Power Series, Representations of Functions as Power Series, Taylor & Maclaurin Series, Applications of Taylor Polynomials	4, 5	Quiz	Lectures and Quiz
4	3D Coordinate Systems, Vectors, The Dot Product, The Cross Product, Equations of Lines and Planes, Functions of Surface.	2, 4	HW	Lectures and Quiz
5	Vector Functions and Space Curves, Derivatives and Integrals of Vector Functions, Arc Length,	4, 5	HW	Lectures and Quiz

	Parametric Surfaces			
6	Functions of Several Variables, Limit and Continuity,	2, 4, 5	Quiz	Lectures and Quiz
7	Partial Derivatives, Tangent Planes and Linear Approximations,	3, 5	HW	Lectures and Quiz
8	Chain Rule, Directional Derivatives and Gradient Vectors,	3, 5	HW	Lectures and Quiz
Midterm Exam				
9	Maximum and Minimum Values, Lagrange Multipliers	2, 4	HW	Lectures and Quiz
10	Double Integrals over Rectangles, Iterated Integrals, Double Integrals over General Regions	2, 4	HW	Lectures and Quiz
11	Double Integrals in Polar Coordinates, Application of Double Integrals.	4, 5	HW	Lectures and Quiz
12	Triple Integrals, Triple Integrals in Cylindrical and Spherical Coordinates. Change of Variables in Multiple Integrals	2, 4	Quiz	Lectures and Quiz
13	Vector Fields, Line Integrals, the Fundamental Theorem for Line Integrals	4, 5	HW	Lectures and Quiz
14	Green's Theorem, Curl and Divergence, Surface Integrals	2, 4, 5	HW	Lectures and Quiz
15	Stokes' Theorem, Divergence Theorem.	1, 2, 3, 4,	Exercises	
Final Exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	

					CLO5
In-class exercises/ quizzes (10%)	Qz1->Qz4 80% Pass	Qz5->Qz8 80%Pass	Qz1->Qz4 80% Pass	Qz5->Qz8 80% Pass	Qz2, 4, 6, 8 70% Pass
Homework exercises (10%)	HW1->H3 70% Pass	HW4, HW5 70%	HW1->HW3 70% Pass	HW4, HW5 70%	HW1->HW5 60% Pass
Midterm exam (30%)	Q1, Q2 80% Pass		Q3, Q4 70% Pass		Q5 50%
Final exam (50%)		Q1, Q2 80%Pass		Q3, Q4 70%Pass	Q5 50%

Note: %Pass: Target that % of students have scores greater than 50 out of 100.

5. Date revised: May 2025

	Ho Chi Minh City, 03/06/2025 Department of Mathematics Pham Huu Anh Ngoc



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
Department of Mathematics

COURSE SYLLABUS
Course Name: Calculus 2

Course Code: **MA003IU**

1. General information

Course designation	This course is a continuation of Calculus 1. Its aim is to equip student with basic concepts of sequence, series, vector functions, functions of several variables, multiple integrals and their applications
Semester(s) in which the course is taught	1, 2
Person responsible for the course	<i>Assoc. Prof. Mai Duc Thanh, Assoc. Prof. Tran Vu Khanh, Dr. Nguyen Minh Quan, Dr. Nguyen Anh Tu, Dr. Ta Quoc Bao.</i>
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lectures, assignments
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 120 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 60 (lectures) Private study including examination preparation, specified in hours ¹ : 60
Credit points	4
Pre-courses	Calculus 1

¹ When calculating contact time, each contact hour is counted as a full hour because the organization of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course objectives	1. To provide students with the main ideas and techniques of calculus. These include sequences, series, functions of several variables, optimal problems, multiple integrals, vector calculus. 2. To introduce practical applications of these ideas and techniques, through practical examples taken from many areas of engineering, business, and life sciences. 3. To develop skills in mathematical modeling and problem solving, ability to think logically, and adapt these skills creatively to new situations									
Course learning outcomes	Upon the successful completion of this course students will be able to: <table><tr><th>Competency level</th><th>Course learning outcome (CLO)</th></tr><tr><td>Knowledge</td><td> CLO1. Have basic knowledge of series, functions of several variables, multiple integrals (Program outcomes: a) CLO2. Have basic knowledge of vector calculus (Program outcomes: a) </td></tr><tr><td>Skill</td><td> CLO3. Can compute partial derivatives, multiple integral (Program outcomes: a, j) CLO4. Can show the convergence of a sequence and a series and use power series to simplify computation. Can show the optimal problem using partial derivatives, can find the volume of an object in higher dimension by using the multiple integrals (Program outcomes: i, h) </td></tr><tr><td>Attitude</td><td> CLO5. Confident when dealing with partial derivatives, multiple integrals. Comfortable with using partial derivatives and multiple integrals in practical situations. (Program outcome: j, k) </td></tr></table>		Competency level	Course learning outcome (CLO)	Knowledge	CLO1. Have basic knowledge of series, functions of several variables, multiple integrals (Program outcomes: a) CLO2. Have basic knowledge of vector calculus (Program outcomes: a)	Skill	CLO3. Can compute partial derivatives, multiple integral (Program outcomes: a, j) CLO4. Can show the convergence of a sequence and a series and use power series to simplify computation. Can show the optimal problem using partial derivatives, can find the volume of an object in higher dimension by using the multiple integrals (Program outcomes: i, h)	Attitude	CLO5. Confident when dealing with partial derivatives, multiple integrals. Comfortable with using partial derivatives and multiple integrals in practical situations. (Program outcome: j, k)
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Attitude	CLO5. Confident when dealing with partial derivatives, multiple integrals. Comfortable with using partial derivatives and multiple integrals in practical situations. (Program outcome: j, k)									

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (4 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Sequences and Convergence	1	I, T
	Series	1	I, T
	Tests for Convergence	1	T, U
	Power series	1	T, U
	Representations of Functions as Power series	1	T, U
	Taylor and Maclaurin series	1	T, U
	Vector Functions and Space Curves, Limit and continuity of vector functions	1	I, T
	Derivatives and Integrals of vector functions, Length of space curves	1	T, U
	Functions of Several Variables, Limits and Continuity	1	I,T
	Partial Derivatives, Tangent Plane and Linear Approximations	1	T, U
	Chain Rules, Directional Derivatives and Gradient	1	T, U
	Maximum and Minimum Values of Functions of two variables	1	T, U
Lagrange Multipliers and Applications	1	T, U	
Double Integrals in Rectangles, Iterated Integrals	1	I, T	
Double, Triple Integrals in General regions and Applications	2	T,U	
Examination forms	Written examination		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this course.		
Reading list	J. Stewart, <i>Calculus</i> , Thomson Learning, 7 th edition, 2012.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (1-6) is shown in the following table:

	PLO						
CLO	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6	PLO7
1	4	4					
2	4	3					
3			4	3			
4			3	3			
5							3

3. Planned learning activities and teaching methods

Week	Topics	CLO	Assessment	Teaching and Learning activities
1	Sequences, Series, The Integral Test and Estimates Sums, The comparison Tests	2, 4	HW	Lectures and Quiz
2	Alternating Series, Absolute Convergence and the Ratio and Roots Tests, Strategy for Testing Series	2, 4	HW	Lectures and Quiz
3	Power Series, Representations of Functions as Power Series, Taylor & Maclaurin Series, Applications of Taylor Polynomials	4, 5	Quiz	Lectures and Quiz
4	3D Coordinate Systems, Vectors, The Dot Product, The Cross Product, Equations of Lines and Planes, Functions of Surface.	2, 4	HW	Lectures and Quiz
5	Vector Functions and Space Curves, Derivatives and Integrals of Vector Functions, Arc Length,	4, 5	HW	Lectures and Quiz

	Parametric Surfaces			
6	Functions of Several Variables, Limit and Continuity,	2, 4, 5	Quiz	Lectures and Quiz
7	Partial Derivatives, Tangent Planes and Linear Approximations,	3, 5	HW	Lectures and Quiz
8	Chain Rule, Directional Derivatives and Gradient Vectors,	3, 5	HW	Lectures and Quiz
Midterm Exam				
9	Maximum and Minimum Values, Lagrange Multipliers	2, 4	HW	Lectures and Quiz
10	Double Integrals over Rectangles, Iterated Integrals, Double Integrals over General Regions	2, 4	HW	Lectures and Quiz
11	Double Integrals in Polar Coordinates, Application of Double Integrals.	4, 5	HW	Lectures and Quiz
12	Triple Integrals, Triple Integrals in Cylindrical and Spherical Coordinates. Change of Variables in Multiple Integrals	2, 4	Quiz	Lectures and Quiz
13	Vector Fields, Line Integrals, the Fundamental Theorem for Line Integrals	4, 5	HW	Lectures and Quiz
14	Green's Theorem, Curl and Divergence, Surface Integrals	2, 4, 5	HW	Lectures and Quiz
15	Stokes' Theorem, Divergence Theorem.	1, 2, 3, 4,	Exercises	
Final Exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	

					CLO5
In-class exercises/ quizzes (10%)	Qz1->Qz4 80% Pass	Qz5->Qz8 80%Pass	Qz1->Qz4 80% Pass	Qz5->Qz8 80% Pass	Qz2, 4, 6, 8 70% Pass
Homework exercises (10%)	HW1->H3 70% Pass	HW4, HW5 70%	HW1->HW3 70% Pass	HW4, HW5 70%	HW1->HW5 60% Pass
Midterm exam (30%)	Q1, Q2 80% Pass		Q3, Q4 70% Pass		Q5 50%
Final exam (50%)		Q1, Q2 80%Pass		Q3, Q4 70%Pass	Q5 50%

Note: %Pass: Target that % of students have scores greater than 50 out of 100.

5. Date revised: May 2025

	Ho Chi Minh City, 03/06/2025 Department of Mathematics Pham Huu Anh Ngoc



PHYSICS 1

Course Code: **PH013IU**

1. General information

Course designation	<i>This subject will provide an introduction to mechanics including concepts and principles of kinetics, dynamics, energetics of motion of a particle and a rigid body.</i>
Semester(s) in which the course is taught	1, 2
Person responsible for the course	Assos. Prof. Phan Bảo Ngọc; Dr. Đỗ Xuân Hội; Dr. Phan Hiền Vũ; Dr. Nguyễn Quang
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, lesson, assignment.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 85 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): lecture: 25 Private study including examination preparation, specified in hours: 60
Credit points/ECTS	2 credits/ 3.09 ECTS (1 ECTS is equivalent to 27.5 hours)
Required and recommended prerequisites	None
Course objectives	This course will provide students with: • The basic knowledge of general Mechanics Physics • Skills to solve problems in engineering environment by applying both theoretical and experimental techniques • Understanding and skills needed to use physical laws governing real process and to solve them in the engineering environment • Confidence and fluency in discussing physics in English.



Course learning outcomes	Upon the successful completion of this course students will be able to:		
	Competency level	Course learning outcome (CLO)	
	Knowledge	CLO1. Understand basic knowledge of kinematics, dynamics, and laws of conservation of a mechanical system. CLO2. Apply knowledge of physics to solving problems in science and engineering	
	Skill	CLO3. Apply skills to analyzing and solving problems in science and engineering	
	Attitude	CLO4. Communicate effectively in writing manner	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (2 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Chapter 1: Bases of Kinematics	3	I, T,U
	Chapter 2: The Law of Motion	2	I, T,U
	Chapter 3: Work and Mechanical Energy	3	I, T,U
	Chapter 4: Linear Momentum and Collisions	2	I, T,U
	Chapter 5: Rotation of a Rigid Object About a Fixed Axis	3	I, T,U
	Chapter 6: Equilibrium and Elasticity	1	I
	Chapter 7: Universal Gravitation	1	I
	Examination forms	Written Examination	
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this course.		
Reading list	[1] Lecture Notes [2] Halliday D., Resnick R. and Walker, J. (2011) <i>Principles of Physics</i> , 9 th edition, John Willey and Sons, Inc. [3] Alonso M. and Finn E.J. (1992) <i>Physics</i> , Addison-Wesley Publishing Company. [4] Faughn/Serway (2006) <i>Serway's College Physics</i> , Thomson Brooks/Cole.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Intended Learning Outcomes (ILO) (1-10) is shown in the following table:

	ILO



CLO	1	2	3	4	5	6	7	8	9	10
1	x									
2	x									
3										
4										

ILO1. Apply knowledge of mathematics, physics, and informatics for solving space engineering problems.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1-3	Chapter 1: Basis of Kinematics Motion in One Dimension: - Position, Velocity, and Acceleration - One-Dimensional Motion with Constant Acceleration - Freely Falling Objects Motion in Two Dimensions: - Position, Velocity, and Acceleration Vectors - Two-Dimensional Motion with Constant Acceleration. Projectile Motion - Circular Motion. Tangential and Radial Acceleration - Relative Velocity and Relative Acceleration	1-4	Assignment/Quiz Midterm	Lecture, Discussion, Inclass-Quiz	[1] 1 [2] 1, 2, 3, 4
4-5	Chapter 2: Laws of Motion - Newton's First Law and Inertial Frames - Newton's Second Law - Newton's Third Law Some Applications of Newton's Laws: - Gravitational Force and Weight - Forces of Friction - Uniform Circular Motion and Non-uniform Circular Motion	1-4	Assignment//Quiz Midterm	Lecture, Discussion, Inclass-Quiz	[1] 2 [2] 5, 6



	- Motion in the Presence of Resistive Forces - Motion in Accelerated Frames				
6-8	Chapter 3: Work and Mechanical Energy - Work Done by Force. Power - Kinetic Energy and Work. Kinetic Energy Theorem - Potential Energy of a System - Conservation of Mechanical Energy - Conservative and Non-conservative Forces - Changes in Mechanical Energy for Non-conservative Forces - Relationship Between Conservative Forces and Potential Energy	1-4	Assignment//Quiz Final	Lecture, Discussion, Inclass-Quiz	[1] 3 [2] 7, 8
Midterm					
9-10	Chapter 4: Linear Momentum and Collisions - Linear Momentum and Its Conservation - Impulse and Momentum - Collisions in One Dimension and Two Dimensions	1-4	Assignment//Quiz Final	Lecture, Discussion, Inclass-Quiz	[1] 4 [2] 9
11-13	Chapter 5: Rotation of a Rigid Object About a Fixed Axis - Rotational Kinematics. Rotational Motion with Constant Angular Acceleration - Torque and Angular Acceleration - Moments of Inertia - Rotational Kinetic Energy - Rolling Motion of a Rigid Object - Angular Momentum of a Rotating Rigid Object - Conservation of Angular Momentum	1-4	Assignment//Quiz Final	Lecture, Discussion, Inclass-Quiz	[1] 5 [2] 10, 11
14	Chapter 6: Equilibrium and Elasticity The Conditions for Equilibrium The Center of Gravity	1-4	Assignment//Quiz	Lecture, Discussion, Inclass-Quiz	[1] 6 [2] 12



15	Chapter 7: Universal Gravitation Newton's Law of Gravitation Kepler's Laws and the Motion of Planets The Gravitational Field and Gravitational and Potential Energy	1-4	Assignment//Quiz	Lecture, Discussion, Inclass-Quiz	[1] 7 [2] 13
Final exam					

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
In-class exercises/quizzes (10%)	Qz1 60%Pass	Qz2 60%Pass		Qz3 60%Pass
Homework exercises (20%)	HW2 50%Pass		HW1, HW3, HW4 50%Pass	
Midterm exam (30%)		Q3 50%Pass	Q1, Q2 50%Pass	
Final exam (40%)	Part I 50%Pass		Part II.1,2 50%Pass	Part II.3 50%Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

6. Date revised: December 26, 2024

Ho Chi Minh City, 26/12/2024

CHAIR OF DEPARTMENT OF PHYSICS

Phan Bảo Ngọc



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: STATISTICS FOR BUSINESS

Course Code: BA080IU

1. General information

Course designation	Face to Face
Semester(s) in which the course is taught	1,2
Person responsible for the course	PhD. Nguyen Ba Trung
Language	English
Relation to curriculum	Compulsory
Teaching methods	Student-centered approach
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45 Private study including examination preparation, specified in hours ¹ : 90
Credit points	3 Credits
Required and recommended prerequisites for joining the course	N/A

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course objectives	The aim of this course is to examine various concepts in probability and statistics. This course also discusses various statistical techniques and the use of them in practical situations. Key topics of this course include descriptive statistics, discrete and continuous random variables, sampling and sampling distributions, confidence intervals, hypothesis testing, analysis of variance, simple linear and multiple regressions								
Course learning outcomes	Upon the successful completion of this course students will be able to: <table> <tr> <th>Competency level</th><th>Course learning outcome (CLO)</th></tr> <tr> <td>Knowledge</td><td> • CLO1: Describe the key statistical concepts, tools and techniques used in business. • CLO2: Describe different research methodologies in business. </td></tr> <tr> <td>Skill</td><td> • CLO3: Know how to work within a team </td></tr> <tr> <td>Attitude</td><td> • CLO4: State the ethical requirements of business statistics. </td></tr> </table>	Competency level	Course learning outcome (CLO)	Knowledge	• CLO1: Describe the key statistical concepts, tools and techniques used in business. • CLO2: Describe different research methodologies in business.	Skill	• CLO3: Know how to work within a team	Attitude	• CLO4: State the ethical requirements of business statistics.
Competency level	Course learning outcome (CLO)								
Knowledge	• CLO1: Describe the key statistical concepts, tools and techniques used in business. • CLO2: Describe different research methodologies in business.								
Skill	• CLO3: Know how to work within a team								
Attitude	• CLO4: State the ethical requirements of business statistics.								
Content	This course is an introduction to basic statistical concepts and methods that are widely used in economics, finance, accountancy, marketing, and business more generally. Emphasis is placed on applying statistical methods to draw inferences from sample data in order to inform decision-making. The course covers two main branches of statistics: descriptive statistics and inferential statistics. Descriptive statistics includes collecting data, summarizing and interpreting them through numerical and graphical techniques. Inferential statistics includes selecting and applying the correct statistical technique in order to make estimates or test claims about a population based on a sample. Topics covered also include time series analysis. In this course, students will learn to solve statistical problems in an Excel spreadsheet environment. Students are also required to work in small groups; this will develop the skills required to work effectively and inclusively in groups, as in a real work environment.								
Examination forms	Multiple choice questions Essay exams Oral exams								
Study and examination requirements	- Attend more than 80% of contact hours in order to be accepted to the final examination - Actively participate in class activities - Fulfill tasks given by instructor after class - Use their own laptop in class only for learning purpose - Read the textbook in advance - Access the course Blackboard for up-to-date information and material of the course, for online supports from								

Reading list	Textbook: Doane and Seward (2016), Applied Statistics in Business and Economics, 5th, New York: McGraw Hill. Reference Books: Amir D. Aczel, Jayavel Sounderpandian, (2009), Complete Business Statistics, 7th Edition, McGraw – Hill/Irwin. Anderson, Sweeney, William (2001), Statistics for Business and Economics, 8th edition, Thompson. Additional materials provided in Blackboard: The lecturer will attempt to make lecture notes and additional reading available on Blackboard. However this is not an automatic entitlement for students doing this subject. Note that this is not a distance learning course, and you are expected to attend lectures and take notes. This way, you will get the additional benefit of class interaction and demonstration.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (1 -10) is shown in the following table:

CLO	Program Learning Outcomes									
	a	b	c	d	e	f	g	h	i	j
1				x						
2	x			x		x				
3						x			x	
4									x	

Course learning outcomes

- CLO1: Describe the key statistical concepts, tools and techniques used in business.
- CLO2: Describe different research methodologies in business.
- CLO3: Know how to work within a team
- CLO4: State the ethical requirements of business statistics.

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct

literature research, collect and interpret data based on the methods of academic research.

- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Overview of Statistics	1	Class-performance evaluations	Lecture	
2	Data collection	1,2,4	Group assignment, Examinations	Lecture Discussion Assignments	
3	Describing Data Visually	1,2,3	Group assignment, Examinations	Lecture Discussion, Tutorials	
4	Descriptive statistics	1,2,3	Group assignment, Examinations	Lecture Discussion , Tutorials	
5	Probability	1,3	Group assignment,	Lecture Discussion	

			Examinations		
6	Discrete Probability Distributions	1,3	Group assignment, Examinations	Lecture Discussion	
7	Continuous Probability Distributions	1,3	Group assignment, Examinations	Lecture Discussion	
8	Midterm				
9	Sampling Distributions and Estimation	1,3	Group assignment, Examinations	Lecture Discussion	
10	One-Sample Hypothesis Tests	1,2,3	Group assignment, Examinations	Lecture , Tutorials Discussion	
11	Two-Sample Hypothesis Tests	1,2,3	Group assignment, Examinations	Lecture Discussion , Tutorials	
12	Analysis of Variance	1,2,3	Group assignment, Examinations	Lecture Discussion , Tutorials	
13	Simple Regression	1,2,3	Group assignment, Examinations	Lecture Discussion , Tutorials	
14	Multiple Regression	1,2,3	Group assignment, Examinations	Lecture Discussion, Tutorials	
15	Group presentation	1,2,3,4	Group presentation	Discussion	
16	Final exam				

4. Assessment plan

Assessment Type	CL01	CL02	CL03	CL04
Group assignment, Attendance, Group report (30%)	x	x	x	x
Midterm exam (30%)	x			
Final exam (40%)	x	x		

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

6. Date revised:

	<i>Ho Chi Minh City, dd/mm/yyyy</i> <i>Head/Dean of Department/School</i> <i>(Signature)</i> <i><Full Name></i>

GRADING RUBRIC FOR WRITTEN COURSEWORK

MIDTERM EXAMINATION – Subject (ID subject)

Academic year: 2022 – 2023 (term ...)

Criteria	INADEQUATE 10% – 49%	ADEQUATE 50% - 59%	ABOVE AVERAGE 60% - 74%	EXEMPLARY ≥ 75%
Organisation and clarification	Does not organise ideas logically and with clarification. Limited evidence of coherence Ideas lack consistence	Generally organised logically, with evidence of progression Occasionally, there may be a lack of focus or ideas may be tangential	Clear organization and progression. Responds appropriately and relevantly, although some ideas are underdeveloped.	Response is focused, detailed and non-tangential. Shows a high degree of attention to logic and reasoning of points. Clearly leads the reader to the conclusion and stirs thought regarding the topic
Originality and usefulness of the analysis	Demonstrates an incomplete grasp of the task. There is no overall sense of creative coherence. Arguments are addressed incompletely.	Shows ability to identify legal issues, gather the facts and develop claims. Argument are addressed well but no links with evidence	Shows strong ability to identify legal issues, gather the facts and develop claims as well as link claims with evidence. Overall, an acceptable solution is offered and explained	Shows strong ability to identify legal issues, gather the facts and develop claims as well as link claims with evidence. Satisfactory solutions are offered and supported
Use of data/information	Shows little information from sources. Poor handling of sources	Shows moderate amount of source information incorporated. Some key points supported by sources. Quotations may be poorly integrated into	Draws upon sources to support most points. Some evidence may not support arguments or may appear where inappropriate. Quotations integrated well	Draws upon primary and secondary source information in useful and illuminating ways to support key points. Excellent integration of quoted material into paragraphs. Source cited

		paragraphs. Some possible problems with source citations	into paragraphs. Sources cited correctly	correctly
Use of frameworks	Shows limited ability to structure problems in correspondence to theoretical frameworks	Shows effort to link problems with the theoretical frameworks. There are still some mistakes	Shows ability to structure problems in correspondence to theoretical frameworks correctly. Minor mistakes in resolving problems	Shows ability to structure problems in correspondence to theoretical frameworks correctly. The problems are well resolved
Quality of arguments	Shows little attempt to offer support for key claims or to relate evidence to analysis. The reasons offered are irrelevant.	Shows argument of poor quality. Weak, undeveloped reasons are offered to support key claims	Shows clear, relevant and logical arguments.	Shows identifiable, reasonable and sound arguments. Clear reasons are offered to support key claims.



VIETNAM NATIONAL UNIVERSITY HCMC INTERNATIONAL UNIVERSITY

COURSE SYLLABUS

General Law

PE021IU

1. General information

Department	Office of Academic Affairs
Course classification	Foundation course
Course designation	Face to face
Semester(s) in which the course is taught	All semesters in each academic year
Person responsible for the course	Dr. Vo Tuong Huan LLM. Bui Doan Danh Thao
Language	English
Relation to curriculum	Compulsory
Teaching methods	Student-centred approach
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 hours Contact hours (lecture, in class discussions): 37.5 hours (=45 periods) Private study including examination preparation, specified in hours ¹ : 90 hours
Credit points	3
Required and recommended prerequisites for joining the course	N/A

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course objectives	The overarching aims of this course are to: • Provide essential knowledge of Vietnamese legal system through integrated technology and real cases for social and cultural sustainability. • Raise awareness of responsibility toward others and how to stand for ending all types of legal violations, especially corruption in various social contexts. • Practice necessary skills to act as an ambassador to ensure social fairness and global equitable rights. • Use integrated online legal resources and communication tools to help the community to identify issues and develop countermeasures.	
Course learning outcomes	Upon the successful completion of this course, students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Apply appropriate legal knowledge in the Vietnamese legal system to solve legal issues in various social contexts for a fair sustainable lifelong being. CLO1.1. Apply general knowledge on state and law to solve legal issues in various social contexts for a fair sustainable lifelong being. CLO1.2. Apply principle legal norms in some law branches such as constitution, civil, criminal, labor and administrative law to solve legal issues in various social contexts for a fair sustainable lifelong being.
	Skill	CLO2. Communicate knowledge in the Vietnamese legal system to encourage people to raise their legal rights aiming for fair social/cultural moves. CLO3. Integrate ICTs to solve legal issues in various social contexts .
	Attitude	CLO4. Detect the responsibility to ensure social and cultural fairness, including ending corruption , in various social contexts through understanding importance of law in social contexts. CLO5. Respond to the base for coexistence in various social contexts .
Content	The course will introduce students to Vietnamese legal systems. In particular, students will understand their rights and obligations in the Constitution, Criminal law, administrative law, civil law, labor law and enterprise law of Vietnam. From this, students will raise awareness towards their responsibility to ensure justice, including ending corruption , in society.	
Examination forms	Multiple choice questions Case-based exams Essay exams Oral exams	

Study and examination requirements	To pass this course, the students must: • Achieve a composite mark of at least 50; and • Make a satisfactory attempt at all assessment tasks (see below). GRADING POLICY Grades can be based on the following: <table border="1"> <tr> <td>Assignment</td><td>20%</td></tr> <tr> <td>Midterm examination</td><td>30%</td></tr> <tr> <td>Final examination</td><td>50%</td></tr> <tr> <td>Total</td><td>100%</td></tr> </table> COURSE POLICIES Attendance Regular and punctual attendance at lectures and seminars is expected in this course. University regulations indicate that if students attend less than eighty percent of scheduled classes they may be refused final assessment. Exemptions may only be made on eligible medical grounds. Workload It is expected that the students will spend at least <i>six</i> hours per week studying this course. This time should be made up of reading, research, working on exercises and problems, and attending classes. In periods where they need to complete assignments or prepare for examinations, the workload may be greater. Over-commitment has been a cause of failure for many students. They should take the required workload into account when planning how to balance study with part-time jobs and other activities. General Conduct and Behaviour The students are expected to conduct themselves with consideration and respect for the needs of fellow students and teaching staff. Conduct which unduly disrupts or interferes with a class, such as ringing or talking on mobile phones, is not acceptable and students will be asked to leave the class. The use of laptops is also encouraged during law lessons only to search for materials online. More information on student conduct is available on the university webpage. Keeping informed The students should take note of all announcements made in lectures or on the course's Blackboard, and another announced mean of communications. From time to time, the university will send important announcements to their university e-mail addresses without providing a paper copy. The students will be deemed to have received this information. Academic honesty and plagiarism Plagiarism is the presentation of the thoughts or work of another as one's own. Students are also reminded that careful time management is an important part of the study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting, and	Assignment	20%	Midterm examination	30%	Final examination	50%	Total	100%
Assignment	20%								
Midterm examination	30%								
Final examination	50%								
Total	100%								

	the proper referencing of sources in preparing all assessment items. The university regards plagiarism as a form of academic misconduct and has very strict rules regarding plagiarism. Special consideration Requests for special consideration (for final examination only) must be made to the Office of Academic Affairs within one week after the examination. General policy and information on special consideration can be found at the Office of Academic Affairs. Absence on the Mid-term is not allowed, or in special cases approved by Lecturer can be replaced with relevant Assignment. Meeting up with the lecturers after classes Students must make an appointment via emails if they want to meet up with the lecturer after classes and be on time. If there are any changes to the scheduled time, students must inform the lecturer immediately.
Reading list	Please note that it is very important to gain familiarity with the subject matter in the readings and cases available on Blackboard and the internet <i>before</i> attendance in classes. Required Course Texts and Materials <u>Legal Texts:</u> 1. Constitution of Vietnam - 2013 2. Civil Code of Vietnam - 2015 3. Criminal Code of Vietnam – 2015 (amended in 2017) 4. Law on Law on Handling of Administrative Violations 2012 5. Law on Enterprises – 2020 6. Labour Code 2019 7. Law on anti-corruption 2018 Available at https://luatvietnam.vn/ or Blackboard <u>Books:</u> • PGS.TS. Phan Trung Hien, <i>Giáo trình Pháp Luật Đại cương</i>, NXB Chính Trị Quốc Gia Sự Thật 2022. • Mai Hong Quy (Chief Editor) (2nd 2017), <i>Introduction to Vietnamese Law</i>, Hong Duc Publishing House. <u>Additional materials provided in Blackboard</u> The lecturer will attempt to make lecture notes and additional reading available on Blackboard. However, this is not an automatic entitlement for students doing this subject. Note that this is not a distance learning course, and you are expected to attend lectures and take notes. This way, you will get the added benefit of class interaction and demonstration. Optional Course Texts and Materials <u>Recommended Internet sites</u> UNCTAD (United Nations Conference on Trade and Development) WTO (World Trade Organization) MOIT - Vietnam (Official website of Ministry of Industry and Trade) MPI - Vietnam (Official website of Ministry of Planning and Investment)

	<u>Other Resources, Support and Information</u> Additional learning assistance is available for students in this course and will be made available on Blackboard. Academic journal articles are available through connections via the VNU - Central Library. Recommended articles will be duly informed to the students. <u>Books:</u> • Nguyen Phu Trong, <i>Kiên quyết, kiên trì đấu tranh phòng, chống tham nhũng, tiêu cực, góp phần xây dựng đảng và nhà nước ta ngày càng trong sạch, vững mạnh</i>, NXB Chính Trị Quốc Gia Sự Thật 2023. • University of Law Ho Chi Minh City, <i>Giáo trình luật Hiến pháp Việt nam</i>, NXB Hồng Đức 2023. • University of Law Ho Chi Minh City, <i>Giáo trình Luật hành chính</i>, NXB Hồng Đức 2022. • University of Law Ho Chi Minh City, <i>Giáo trình Luật hình sự Việt Nam</i>, NXB Hồng Đức 2022. • University of Law Ho Chi Minh City, <i>Giáo trình Luật dân sự Việt Nam</i>, NXB Hồng Đức 2022. • University of Law Ho Chi Minh City, <i>Giáo trình Luật lao động Việt Nam</i>, NXB Hồng Đức 2022. • University of Law Ho Chi Minh City, <i>Giáo trình pháp luật về chủ thể kinh doanh</i>, NXB Hồng Đức 2022.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (SLO) (1-5) and Program/Student Learning Outcomes (PLO/SLO) (1 - 10) is shown in the following table:

	PLO/SLO									
SLO	1	2	3	4	5	6	7	8	9	10
1	R,M					R,M	R,M	R,M	R,M	R,M
2			R,M							
3			R,M							
4				R,M						
5					R,M					

R: Reinforced

M: Mastery

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to State • What is State? • Nature of state • Forms of state • Functions of state • Introduction to structure of Vietnamese state	1-5 (level I - introduced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPT - Introduction to Vietnamese legal system available on Blackboard

2	Introduction to law? • What is law? • Nature of law • Forms of law • Structure of law • Categorization of legal system. • Enforcement • Breach of law and liabilities for breach of law • Introduction to structure of Vietnamese legal system	1-5 (level I - introduced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPT - Introduction to Vietnamese legal system available on Blackboard
3	Constitutional Law • General introduction on Vietnamese Constitution and its nature and basic principles. • Political, economic and other regimes of Vietnam • Basic rights and responsibilities of citizens. Relationship between citizens and the State. • Structure, functions and duties of Vietnamese state, especially in prevention of corruption	1-5 (Level R - reinforced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPTs – Constitutional law available on Blackboard Constitution 2013 available on Blackboard
4	Constitutional Law (Cont) • Structure and functions and duties of Vietnamese state • Duties of the state in prevention of corruption	1-5 (Level R - reinforced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPTs – Constitutional law available on Blackboard Constitution 2013 available on Blackboard
5	Administrative Law • Definition and nature of administrative law • Administrative law violations • Liabilities for breach of administrative law, exemption from the liability	1-5 (Level R - reinforced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies and law on anti-corruption	PPT– Administrative law available on Blackboard Law on handling administrative violations 2012, and Law on anti-corruption 2018 available on Blackboard
6	Criminal Law • Definition and nature of criminal law	1-5 (Level R - reinforced)	Tests Peer evaluations Class-performance	Discussions Case studies, especially cases related	PPT– Criminal law available on Blackboard

	- Crimes - Punishments		evaluations	to corruption	Criminal code 2015 available on Blackboard
7	Criminal Law (Cont) - Crimes related to corruption - Punishments for corruption	1-5 (Level R - reinforced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies, especially cases related to corruption	PPT– Criminal law available on Blackboard Criminal code 2015 available on Blackboard
8	Revision for mid-term exam		Quizzes Projects		
9	Civil Law (Part I) - Definition and nature Civil law relationship - Subject of civil law - Property and ownership - Civil transactions	1-5 (Level R - reinforced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPT– Civil law available on Blackboard Civil code 2015 available on Blackboard
10	Civil Law (Part II) - Contracts - Definitions - Formation of contracts - Validity of contracts - Liability for breach of contracts	1-5 (Level M - Mastery)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPT– Civil law available on Blackboard Civil code 2015 available on Blackboard
11	Civil Law (Part III) - Inheritance - Testamentary inheritance - Intestacy	1-5 (Level M - Mastery)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPT– Civil law available on Blackboard Civil code 2015 available on Blackboard
12	Law on Enterprises - Introduction to law on enterprises - Introduction to forms, features, establishment, reorganization and dissolution of an enterprise	1-5 (Level I - Introduced)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPT– Law on enterprises available on Blackboard Law on enterprises 2020 available on Blackboard
13	Labor Law - Definition, and nature of labour law - Employees and employers - Working time, and resting time - Salary (including salary for overtime working hours)	1-5 (Level M - Mastery)	Tests Peer evaluations Class-performance evaluations	Discussions Case studies	PPT– Labor law available on Blackboard Labor code 2019 available on Blackboard
14	Labour Law (Cont.)	1-5 (Level M -	Tests Peer evaluations	Discussions Case studies	PPT– Labor law available on

	• Employment contracts • Labor disciplines • Dispute settlements	Mastery)	Class-performance evaluations		Blackboard Labor code 2019 available on Blackboard
15	Revision/ Tutoring classes		Quizzes Projects		

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	CLO5
In class evaluation (20%)	70% pass	80% pass	100% pass	100% pass	100% pass
Midterm examination (30%)	70% pass	80% pass	100% pass	100% pass	100% pass
Final examination (50%)	70% pass	80% pass	100% pass	100% pass	100% pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics

No.	CLOs	Criteria	COMPLETELY FAIL Below 30%	INADEQUATE 30% – 49%	ADEQUATE 50% - 69%	ABOVE AVERAGE 70% - 89%	EXEMPLARY ≥ 90%
1	CLO 1	Organisation and clarification	No evidence of organization and coherence	Does not organise ideas logically and with clarification Limited evidence of coherence Ideas lack consistence	Generally organised logically, with evidence of progression Occasionally, there may be a lack of focus or ideas may be tangential	Clear organization and progression. Responds appropriately and relevantly, although some ideas are underdeveloped	Response is focused, detailed and non-tangential. Shows a high degree of attention to logic and reasoning of points. Clearly leads the reader to the conclusion and stirs thought regarding the topic
2		Originality and usefulness of the analysis	Shows no ability to identify legal issues or a clear inability to gather the facts	Demonstrates an incomplete grasp of the task. There is no overall sense of creative coherence. Arguments are addressed incompletely.	Shows ability to identify legal issues, gather the facts and develop claims. Argument are addressed well but no links with evidence	Shows strong ability to identify legal issues, gather the fact and develop claims as well as link claims with evidence. Overall, an acceptable solution is offered and explained	Shows strong ability to identify legal issues, gather the facts and develop claims as well as link claims with evidence. Satisfactory solutions are offered and supported
3		Use of data/information	Shows no effort to incorporate information from primary and secondary sources	Shows little information from sources. Poor handling of sources	Shows moderate amount of source information incorporated. Some key points supported by sources. Quotations may be poorly integrated into paragraphs. Some possible problems with source citations	Draws upon sources to support most points. Some evidence may not support arguments or may appear where inappropriate. Quotations integrated well into paragraphs. Sources cited correctly	Draws upon primary and secondary source information in useful and illuminating ways to support key points. Excellent integration of quoted material into paragraphs. Source cited correctly
4	CLO2	Use of frameworks	Shows no effort to structure	Shows limited ability to structure	Shows effort to link problems with the theoretical	Shows ability to structure problems in	Shows ability to structure problems in correspondence to

			problems in correspondence to theoretical frameworks	problems in correspondence to theoretical frameworks	frameworks. There are still some mistakes	correspondence to theoretical frameworks correctly. Minor mistakes in resolving problems	theoretical frameworks correctly. The problems are well resolved
5		Quality of arguments	Shows no effort to construct logical arguments. Fails to support analysis	Shows little attempt to offer support for key claims or to relate evidence to analysis. Reasons offered are irrelevant.	Shows argument of poor quality. Weak, undeveloped reasons are offered to support key claims	Shows clear, relevant and logical arguments.	Shows identifiable, reasonable and sound arguments. Clear reasons are offered to support key claims.

Ho Chi Minh City, May 2023
Head of Office of Academic Affairs

Huỳnh Khả Tú



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: Construction Economics

Course Code: **CM309IU**

1. General Information

Module designation	CM309IU – Construction Economics In this course, students will study the general knowledge of micro- and macro-economics including the market mechanism, supply and demand theories, market structures of construction industry, macroeconomic objectives, government policy instruments, and inflation. Effects of micro- and macro-economics to construction industry also mentioned in this course. Students acquire the client and contractor relationships, different types of costs of construction firms, and the failure of market.
Semester(s) in which the module is taught	3
Person responsible for the module	Dr. Pham Thanh Tung
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45 Private study including examination preparation, specified in hours ¹ : 90
Credit points	3

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the module	None																																							
Module objectives/intended learning outcomes	Overall objectives are to equip IU students with knowledge of micro- and macro-economics and the construction market mechanism. The related economic problems of construction firms, including relationships among clients and contractors, costs, demand and supply, and environmental issues. Students who complete the course will be able to perform the following tasks: (1) Having knowledge of micro- and macro-economics and the market mechanism (2) Having knowledge of using different economic issues related to construction firms (3) Applying the economic knowledge in construction management																																							
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>An introduction to the Basic Concepts</td><td>1</td><td>I</td></tr><tr><td>Economic systems for resource allocation</td><td>1</td><td>T</td></tr><tr><td>The market mechanism</td><td>1</td><td>T</td></tr><tr><td>The theory of demand</td><td>1</td><td>T, U</td></tr><tr><td>The theory of supply</td><td>1</td><td>T, U</td></tr><tr><td>Clients and contractors</td><td>1</td><td>T</td></tr><tr><td>Costs of the construction firm</td><td>2</td><td>T, U</td></tr><tr><td>Types of market structure in the construction industry</td><td>1</td><td>T</td></tr><tr><td>Market failures and government remedies</td><td>1</td><td>T</td></tr><tr><td>Environmental economics</td><td>1</td><td>T</td></tr><tr><td>Managing the macroeconomy</td><td>2</td><td>T</td></tr><tr><td>The economy and construction</td><td>2</td><td>T</td></tr></table>	Topic	Weight	Level	An introduction to the Basic Concepts	1	I	Economic systems for resource allocation	1	T	The market mechanism	1	T	The theory of demand	1	T, U	The theory of supply	1	T, U	Clients and contractors	1	T	Costs of the construction firm	2	T, U	Types of market structure in the construction industry	1	T	Market failures and government remedies	1	T	Environmental economics	1	T	Managing the macroeconomy	2	T	The economy and construction	2	T
Topic	Weight	Level																																						
An introduction to the Basic Concepts	1	I																																						
Economic systems for resource allocation	1	T																																						
The market mechanism	1	T																																						
The theory of demand	1	T, U																																						
The theory of supply	1	T, U																																						
Clients and contractors	1	T																																						
Costs of the construction firm	2	T, U																																						
Types of market structure in the construction industry	1	T																																						
Market failures and government remedies	1	T																																						
Environmental economics	1	T																																						
Managing the macroeconomy	2	T																																						
The economy and construction	2	T																																						

Examination forms	Constructed-response test
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.
Reading list	Textbook: [1] Myers, D. (2022). <i>Construction economics – A new approach</i> . Routledge, 5th edition. References: [1] Slavin, S. L. (2005). <i>Economics</i> , 7th eds. New York: McGraw-Hill Irwin.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Having knowledge of micro- and macro-economics and the market mechanism
- (2) CLO2: Having knowledge of using different economic issues related to construction firms
- (3) CLO2: Applying the economic knowledge in construction management

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x		x						
CLO2		x		x						
CLO3		x		x						

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management

performance.

- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	An introduction to the Basic Concepts Introducing construction economics Definitions Construction industry	1		Lecture Class discussion	[1] Chapter 1
2	Economic systems for resource allocation Economic systems Equity, efficiency and the environment	1	Quiz 1	Lecture Class discussion	[1] Chapter 2
3	The market mechanism Product and factor allocation in a market economy Price signals and self interest Three qualifying remarks The concept of equilibrium A change in the constructions of the market	1, 2	Quiz 2	Lecture Class discussion	[1] Chapter 3, 4

Week	Topic	CLO	Assessments	Learning activities	Resources
4	The theory of demand The basic law of demand Demand in the construction industry A generalized demand equation Change market conditions Understanding changes in demand	1, 2	Quiz 3	Lecture Class discussion	[1] Chapter 4
5	The theory of supply The basic law of supply Supply in the construction industry Supply and determinant Understanding changes in supply Combining supply and demand	1, 2	Quiz 4	Lecture Class discussion	[1] Chapter 5
6	Clients and contractors Clients Contractors Partnering Rethinking client and contractors relationships	2	Quiz 5	Lecture Class discussion	[1] Chapter 6
7	Costs of the construction firm Definitions Relationships between outputs and inputs Diminishing returns	3	Quiz 6 Presentation 1	Lecture Class discussion	[1] Chapter 7
8	Costs of the construction firm Short-run costs Contractor's project costs Long-run costs External economies of scale MIDTERM EXAM	3	EXAM	Lecture Class discussion EXAM	[1] Chapter 7
9	Types of market structure in the construction industry The purpose of perfect competition Towards the notion of an efficient industry Market structures that typify the construction industry	1, 3	Quiz 7	Lecture Class discussion	[1] Chapter 8

Week	Topic	CLO	Assessments	Learning activities	Resources
	Resource allocation and sustainability				
10	Market failures and government remedies What causes market failure? Correcting market failure Are government corrections effective? Government failure	1	Quiz 8	Lecture Class discussion	[1] Chapter 9
11	Environmental economics The material balance model Private costs versus social costs	1	Quiz 9	Lecture Class discussion	[1] Chapter 10
12, 13	Managing the macroeconomy Five macroeconomic objectives Government policy instruments Macroeconomic management	1	Quiz 10	Lecture Class discussion	[1] Chapter 11
14,15	The Economy and construction Measuring economic activity From circular flow model to reality Manipulating the level of economic activity Supply-side economic Inflation and how it is measured Causes of inflation Cures for inflation	3	Quiz 11 Presentation 2	Lecture Class discussion	[1] Chapter 12
16-17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (10%)	Qz1, Qz2, Qz3, Qz8, Qz9, Qz10 60%Pass	Qz4, Qz5 60%Pass	

			Qz6, Qz11 60%Pass	
Homework exercises/ Presentation (20%)		Presentation 1 60%Pass	Presentation 2 60%Pass	
Midterm exam (20%)	60% Pass	60% Pass		
Final exam (50%)		60% Pass	60% Pass	

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: June 02, 2025

Ho Chi Minh City, June 02, 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Business

COURSE SYLLABUS

Course Name: Principles of Marketing

Course Code: **BA003IU**

1. General information

Course designation	<i>The course named “Principles of Marketing” provides the students with necessary information on the basic concepts of marketing and its principles. It focuses on the understanding of Market Demand and Customers Behaviors as well as Marketing strategies developed by firms in terms of Pricing, Product, Place, Promotion, etc. The course also mentions various methods to market research and environmental factors that affects the marketing activities.</i>
Semester(s) in which the course is taught	1, 2
Person responsible for the course	Ms. Dang Thi Uyen Thao
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lectures, projects, quizzes, examinations.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours: 38 (15 classes, 1 class = 3 periods, 1 period = 50 minutes) Private study including examination preparation, specified in hours: 90
Credit points	03 credits/4.64 ECTS
Required and recommended prerequisites for joining the course	None

Course objectives	This course is an introduction to the field of marketing. In this course, the students will start to examine the most basic concepts in marketing – customer needs, wants, and demand to understand the marketplace. Next, main steps in designing a customer-driven marketing strategy are also explored. This course specially focuses on constructing an integrated marketing program that delivers superior value by using the marketing mix (the four Ps) – product/service design, pricing, distribution, and promotion. At last, other new contents of modern marketing, such as customer relationship management and partner relationship management are also briefly mentioned.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Understand marketing terminology and concepts and the principles used in developing marketing programs in a firm. CLO6. Understand basic characteristic of B2B and B2C marketing. CLO7. Understand the differences of goods and service characteristic in marketing
	Skill	CLO2. Identify wants, environmental factors and personal factors that shape marketing activities for certain target markets CLO3.Demonstrate knowledge of the individual components of a marketing mix CLO4.Demonstrate knowledge of key business communication strategies within the marketing field CLO5. Identify the organizational processes involved in the planning, implementation and control of marketing activities
	Attitude	

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (3 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Chapter 1: Creating and Capturing Customer Value	1	I, T
	Chapter 2: Company and Marketing Strategy- Partnering to Build Customer Engagement, Value, and Relationships	1	I, T
	Chapter 3: Analysing the marketing environment	1	I, T, U
	Chapter 5: Understanding consumer buyer behaviour	2	I, T, U
	Chapter 6: Business Markets and Business Buying Behavior	1	I, T
	Chapter 7: Customer-Driven Marketing Strategy: Creating Value for Target Customers	2	I, T, U
	Chapter 8: Product, Services, and Brands: Building Customer Value	1	I, T, U
	Chapter 10: Pricing: Understanding and Capturing Customer Value	1	I, T
	Chapter 12: Marketing Channels: Delivering Customer Value	1	I, T
	Chapter 14: Communicating Customer Value: Integrated Marketing Communications Strategy	1	I, T, U
Chapter 15: Advertising and Public Relations	1	I, T, U	
Examination forms	Essay questions, case studies		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this course.		
Reading list	[1] Textbook: Philip Kotler and Gary Armstrong (2015), Principles of Marketing, 16th Edition , Prentice Hall, Upper Saddle River, New Jersey [2] Slides and other materials are provided in the Blackboard		

2. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Chapter 1: Creating and Capturing Customer Value	1	Individual Writing Assignment	Lecture, Discussion	[1], [2]
2	Chapter 2: Company and Marketing Strategy- Partnering to Build Customer Engagement, Value, and Relationships	1	Individual Writing Assignment	Lecture, Discussion	[1], [2]
3	Chapter 3: Analysing the marketing environment	2	Group assignment	Lecture, Discussion	[1], [2]
4, 5	Chapter 5: Understanding consumer buyer behaviour	2	Case Analysis	Lecture, Discussion	[1], [2]
6	Chapter 6: Business Markets and Business Buying Behavior	6	Quizzes	Lecture, Discussion	[1], [2]
7, 8	Chapter 7: Customer-Driven Marketing Strategy: Creating Value for Target Customers	1, 5	Case Analysis	Lecture, Discussion	[1], [2]
9	Midterm				
10, 11	Chapter 8: Product, Services, and Brands: Building Customer Value	3, 7	Case Analysis	Lecture, Discussion	[1], [2]
12	Chapter 10: Pricing: Understanding and Capturing Customer Value	3	Individual Writing Assignment	Lecture, Discussion	[1], [2]
13	Chapter 12: Marketing Channels: Delivering Customer Value	3	Quizzes	Lecture, Discussion	[1], [2]
14	Chapter 14: Communicating Customer Value: Integrated Marketing Communications Strategy	3, 4	Individual Writing Assignment	Lecture, Discussion	[1], [2]
15	Chapter 15: Advertising and Public Relations	3, 4	Group assignment	Lecture, Discussion	[1], [2]
16	Revision				
17	Final exam				

3. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	CLO5	CLO6	CLO7
Quizzes (5%)			Qz1 60%Pass			Qz2 60%Pass	
Individual Writing Assignment (5%)	Asgmt 1 60%Pass		Asgmt 2 60%Pass	Asgmt 3 60%Pass			
Case Analysis (5%)							
Class participation and preparation (5%)							
Group assignment (10%)		60%Pass	60%Pass	60%Pass			

Mid-term Exam (30%)	Q1 50%Pass	Q1 50%Pass			Q2 50%Pass	Q3 60%Pass	
Final exam (40%)			Q1 50%Pass	Q2 50%Pass			Q3 50%Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

4. Rubrics (optional)

5.1. Grading checklist

Grading checklist for Written Reports			
Student:		HW/Assignment:	
Date:		Evaluator:	
	Max.	Score	Comments
Technical content (60%)			
Abstract clearly identifies purpose and summarizes principal content	10		
Introduction demonstrates thorough knowledge of relevant background and prior work	15		
Analysis and discussion demonstrate good subject mastery	30		
Summary and conclusions appropriate and complete	5		
Organization (10%)			
Distinct introduction, body, conclusions	5		
Content clearly and logically organized, good transitions	5		
Presentation (20%)			
Correct spelling, grammar, and syntax	10		
Clear and easy to read	10		
Quality of Layout and Graphics (10%)	10		
TOTAL SCORE	100		

5.2. Holistic rubric

Holistic rubric for evaluating the entire document, e.g., exercises/quizzes/HW	
Score	Description
5	Demonstrates complete understanding of the problem. All requirements of task are included in response
4	Demonstrates considerable understanding of the problem. All requirements of task are included.
3	Demonstrates partial understanding of the problem. Most requirements of task are included.
2	Demonstrates little understanding of the problem. Many requirements of task are missing.
1	Demonstrates no understanding of the problem.
0	No response/task not attempted

Note: this rubric is also used to evaluate questions in an exam.

5.3. Analytic rubric

Critical thinking value rubric for evaluating questions in exams:

	Capstone	Milestone		Benchmark
	4	3	2	1

Explanation of issues	Issue/ problem to be considered critically is stated clearly and described comprehensively, delivering all relevant information necessary for full understanding.	Issue/ problem to be considered critically is stated, described, and clarified so that understanding is not seriously impeded by omissions.	Issue/ problem to be considered critically is stated but description leaves some terms undefined, ambiguities unexplored, boundaries undetermined, and/ or backgrounds unknown.	Issue/ problem to be considered critically is stated without clarification or description.
Evidence <i>Selecting and using information to investigate a point of view or conclusion</i>	Information is taken from source(s) with enough interpretation/ evaluation to develop a comprehensive analysis or synthesis. Viewpoints of experts are questioned thoroughly.	Information is taken from source(s) with enough interpretation/ evaluation to develop a coherent analysis or synthesis. Viewpoints of experts are subject to questioning.	Information is taken from source(s) with some interpretation/ evaluation, but not enough to develop a coherent analysis or synthesis. Viewpoints of experts are taken as mostly fact, with little questioning.	Information is taken from source(s) without any interpretation/ evaluation. Viewpoints of experts are taken as fact, without question.
Influence of context and assumptions	Thoroughly (systematically and methodically) analyzes own and others' assumptions and carefully evaluates the relevance of contexts when presenting a position.	Identifies own and others' assumptions and several relevant contexts when presenting a position.	Questions some assumptions. Identifies several relevant contexts when presenting a position. May be more aware of others' assumptions than one's own (or vice versa).	Shows an emerging awareness of present assumptions (sometimes labels assertions as assumptions). Begins to identify some contexts when presenting a position.
Student's position (perspective, thesis/hypothesis)	Specific position (perspective, thesis/ hypothesis) is imaginative, taking into account the complexities of an issue. Limits of position (perspective, thesis/ hypothesis) are acknowledged. Others' points of view are synthesized within position (perspective, thesis/ hypothesis).	Specific position (perspective, thesis/hypothesis) takes into account the complexities of an issue. Others' points of view are acknowledged within position (perspective, thesis/ hypothesis).	Specific position (perspective, thesis/ hypothesis) acknowledges different sides of an issue.	Specific position (perspective, thesis/ hypothesis) is stated, but is simplistic and obvious.
Conclusions and related outcomes (implications and consequences)	Conclusions and related outcomes (consequences and implications) are logical and reflect student's informed evaluation and ability to place evidence and perspectives discussed in priority order.	Conclusion is logically tied to a range of information, including opposing viewpoints; related outcomes (consequences and implications) are identified clearly.	Conclusion is logically tied to information (because information is chosen to fit the desired conclusion); some related outcomes (consequences and implications) are identified clearly.	Conclusion is inconsistently tied to some of the information discussed; related outcomes (consequences and implications) are oversimplified.

Source: Association of American Colleges and Universities

Oral communication value rubric for evaluating presentation tasks:

	Capstone	Milestone		Benchmark
	4	3	2	1
Organization	Organizational pattern (specific introduction and conclusion, sequenced material within the body, and transitions) is clearly and consistently observable and is skillful and makes the content of the presentation cohesive.	Organizational pattern (specific introduction and conclusion, sequenced material within the body, and transitions) is clearly and consistently observable within the presentation.	Organizational pattern (specific introduction and conclusion, sequenced material within the body, and transitions) is intermittently observable within the presentation.	Organizational pattern (specific introduction and conclusion, sequenced material within the body, and transitions) is not observable within the presentation.

Language	Language choices are imaginative, memorable, and compelling, and enhance the effectiveness of the presentation. Language in presentation is appropriate to audience.	Language choices are thoughtful and generally support the effectiveness of the presentation. Language in presentation is appropriate to audience.	Language choices are mundane and commonplace and partially support the effectiveness of the presentation. Language in presentation is appropriate to audience.	Language choices are unclear and minimally support the effectiveness of the presentation. Language in presentation is not appropriate to audience.
Delivery	Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) make the presentation compelling, and speaker appears polished and confident.	Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) make the presentation interesting, and speaker appears comfortable.	Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) make the presentation understandable, and speaker appears tentative.	Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) detract from the understandability of the presentation, and speaker appears uncomfortable.
Supporting Material	A variety of types of supporting materials (explanations, examples, illustrations, statistics, analogies, quotations from relevant authorities) make appropriate reference to information or analysis that significantly supports the presentation or establishes the presenter's credibility/ authority on the topic.	Supporting materials (explanations, examples, illustrations, statistics, analogies, quotations from relevant authorities) make appropriate reference to information or analysis that generally supports the presentation or establishes the presenter's credibility/ authority on the topic.	Supporting materials (explanations, examples, illustrations, statistics, analogies, quotations from relevant authorities) make appropriate reference to information or analysis that partially supports the presentation or establishes the presenter's credibility/ authority on the topic.	Insufficient supporting materials (explanations, examples, illustrations, statistics, analogies, quotations from relevant authorities) make reference to information or analysis that minimally supports the presentation or establishes the presenter's credibility/ authority on the topic.
Central Message	Central message is compelling (precisely stated, appropriately repeated, memorable, and strongly supported.)	Central message is clear and consistent with the supporting material.	Central message is basically understandable but is not often repeated and is not memorable.	Central message can be deduced but is not explicitly stated in the presentation.

Source: Association of American Colleges and Universities

5. Date revised: July 17th, 2022

Ho Chi Minh City, 17/7/2022

Dean of School of Business



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: Engineering Ethics and Critical Thinking

Course Code: **PE022IU**

1. General Information

Course name	PE022IU – Engineering Ethics and Critical Thinking PE022IU – Đạo đức nghề nghiệp và tư duy phản biện
Module designation	This course is designed to introduce engineering students to the concepts, theory and practice of engineering ethics. It will allow students to explore the relationship between ethics and engineering, and apply classical moral theory and decision making for engineering issues encountered in academic and professional careers. Further, this course also provides the nature and techniques of thought as a basis for our claims, beliefs, and attitudes about the world. Specifically, the course includes the theory and practice of presenting arguments in oral and written forms, making deductive and inductive arguments, evaluating the validity or strength of arguments, detecting fallacies in arguments, and refuting fallacious arguments.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	3
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Huynh, Vo Trung Dung

Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS
Number of periods	Theory: 45 Practice: 00
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course:
Module objectives/intended learning outcomes	Overall objectives are to equip IU students with knowledge about the philosophies of ethics, professional practice, and world culture. Students who complete the course will be able to perform the following tasks: (1) Having knowledge of the definition of engineering ethics, codes of ethics, ethic philosophies, intellectual property, copyright, fair use of copyrighted materials and research data, and critical thinking. (2) Using different problem-solving techniques to solve ethical dilemmas in considering social, environmental, legal aspects, safety and sustainability issues of engineering activities. (3) Identify, construct, and evaluate deductive and inductive arguments in spoken and written forms to avoid barriers to critical thinking in various contexts. (4) Develop professional skills including team working, presentation, and critical thinking to defend personal/group beliefs in respectful manners
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Weight: lecture session (3 hours)		
	Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Introduction to engineering professionalism and ethics Engineers in Society	1	I
	Moral choices and codes of ethics	1	T, U
	Philosophical ethics Ethical problem-solving techniques	2	I, T, U
	Engineers at the Workplaces - Leadership	1	T, U
	Truth in actions and words in Academic and Research Ethics	1	T
	Internet ethics, Privacy Issues and Intellectual Property Rights Commitment to Safety	2	T
	Environmental ethics Sustainable engineering	1	T
	Introduction to critical thinking	1	T
	Basic logical concepts	1	T, U
	Logical fallacies	1	T, U
	Recognizing, analyzing, evaluating arguments	2	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] M. W. Martin and R. Schinzinger (2010). <i>Introduction to engineering ethics</i> McGraw-Hill Education 2nd edition [2] Bassham, Irwin, Nardone, and Wallace, <i>Critical Thinking: A Student's Introduction</i>, 6th edition, McGraw-Hill Education, 2020 References:		

	[1] C. B. Fleddermann. (2011). <i>Engineering Ethics</i>, Pearson 4th edition [2] Moore, B.N. et al. (2009). <i>Critical Thinking</i>, 9th ed. McGraw-Hill.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Having knowledge of the definition of engineering ethics, codes of ethics, ethic philosophies, intellectual property, copyright, fair use of copyrighted materials and research data, and critical thinking.
- (2) CLO2: Using different problem-solving techniques to solve ethical dilemmas in considering social, environmental, legal aspects, safety and sustainability issues of engineering activities.
- (3) CLO3: Identify, construct, and evaluate deductive and inductive arguments in spoken and written forms to avoid barriers to critical thinking in various contexts.
- (4) CLO4: Develop professional skills including team working, presentation, and critical thinking to defend personal/group beliefs in respectful manners.

No.	Program Learning Outcome										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
CLO1				x							
CLO2				x	x		x			x	
CLO3				x						x	
CLO4				x	x		x				

Program Learning Outcome:

- (a) Understanding the physical world and using knowledge of mathematics and natural sciences to represent it in pursuing and establishing research by the use of quantitative and quantitative methods.
- (b) Understanding the fundamentals of the civil engineering field (e.g., construction geology, material science, construction physics, surveying, structural theory, technical design, construction informatics, soil mechanics, fluid mechanics, and computational techniques, analyzing data for design, build, and appraisal construction)
- (c) Ability to analyze and prepare investment projects and understand their economic, environmental, and social impacts
- (d) Awareness of professional and ethical responsibilities of a civil engineer; ability to make rational decisions based on an ethical argumentation, think critically in order to find innovative and effective solutions for interdivision aqualitative and quantitative problems.
- (e) Ability to function as a member of a multidisciplinary team (including multi-national and mixed-gender teams) as well as having good knowledge of management and organization to be able to take on leadership roles

- (f) Recognition of the need for and ability to engage in life-long learning in order to work efficiently in situations in which new technologies emerge regularly, as well as take part in developing new technologies by engaging in research works having the ability to interpret and use empirical datasets, integrate technical literature and databases to solve specific civil engineering problems or fill knowledge gaps.
- (g) Ability to communicate matters related to civil engineering to colleagues in the same profession or the general public, effectively using oral, written, and other forms of communication.
- (h) A broad education necessary to understand the impacts of civil engineering solutions in a global and social context
- (i) A broad understanding of contemporary issues in civil engineering in the national, regional, and global level
- (j) Ability to use techniques, skills, and modern engineering tools necessary for engineering practice, including identifying tasks of civil engineering, analyzing, abstracting, and formulating, along with being able to develop concepts, plans, and methods for proof and forecast (e.g., documented evidence for stability, energy efficiency, noise protection, flood protection, water supply)
- (k) Ability to use English in both technical and daily life situations

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to engineering professionalism and ethics Engineers in Society	1		Lecture, Discussion	[1] Chapter 1, 4
2	Moral choices and codes of ethics	1	HW1 and/or Quiz1	Lecture, HW1 and/or Quiz1	[1] Chapter 2
3, 4	Philosophical ethics Ethical problem-solving techniques	1, 2	HW2 and/or Quiz2	Lecture, Presentation1	[1] Chapter 3, 4
5	Engineers at the Workplaces - Leadership	1	Quiz3	Lecture, Discussion Quiz3	[1] Chapter 6
6	Truth in actions and words Academic and Research Ethics	1, 2	Quiz4	Lecture, Quiz4	[1] Chapter 7
7, 8	Internet Ethics, Privacy Issues and Intellectual Property Rights Commitment to Safety Midterm exam	1	Quiz5 Presentation 1 Midterm exam	Lecture, Discussion Quiz5 Test	[1] Chapter 5, 6, 13
9	Environmental ethics Sustainable engineering	1	Quiz6	Lecture, Discussion Quiz6	[1] Chapter 9

10	Introduction to critical thinking	1,3	Quiz7	Lecture, Discussion Quiz7	[2] Chapter 1
11	Basic logical concepts	1,3	Quiz8	Lecture, Discussion Quiz8	[2] Chapter 3
12	Logical fallacies	3, 4	Quiz9	Lecture, Discussion Quiz9	[2] Chapter 5, 6
13, 14	Recognizing, analyzing, evaluating arguments	3, 4	Quiz10 Presentation 2	Lecture, Discussion Quiz10	[2] Chapter 2, 7, 8
15	Review				
16	Reservation week				
17-18	FINAL EXAM				

Note: Regarding the twinning program, the teaching methods and learning activities can be project-based methods or/and in-class activities.

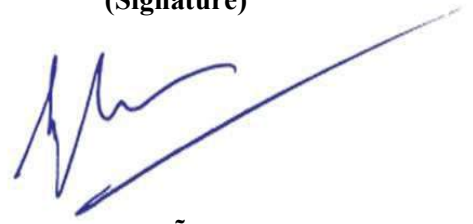
4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
In-class exercises/quizzes (10%)	Qz1, Qz3, Qz5, Qz6 50%Pass	Qz2, Qz4 50%Pass	Qz5, Qz6, Qz7, Qz8, 50%Pass	Qz5, Qz6, Qz7, Qz8, 50%Pass
Homework exercises/ Presentation (20%)	Presentation 1 50%Pass	Presentation 2 50%Pass		
Midterm exam (20%)	MCQ, Case study 50% Pass	MCQ, Case study 50% Pass		
Final exam (50%)			MCQ, Case study 50% Pass	

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 24, 2025

Ho Chi Minh City, May 24, 2025
Dean of School of Civil Engineering and
Management
(Signature)

A handwritten signature in blue ink, consisting of a stylized 'H' followed by a long, sweeping diagonal line.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Languages

COURSE SYLLABUS
Course Name: Writing AE1
Course Code: EN007IU

1. General information

Course name	- (in English) WRITING AE1 (Academic Writing) - (in Vietnamese) <i>Viết học thuật</i>
Course designation	<i>This course provides students with comprehensive instructions and practice in essay writing, including transforming ideas into different functions of writing such as process, cause-effect, comparison-contrast, and argumentative essays.</i>
Semester(s) in which the course is taught	1, 2, 3
Person responsible for the course	Lecturers of School of Languages
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, lesson, project
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 90 Contact hours (lecture, exercise): 30 Private study including examination preparation, specified in hours ¹ : 60
Credit points	2 credits (Theory: 2 + Practice: 0) 3.08 ECTS (<i>optional</i>)
Required and recommended prerequisites for joining the course	None

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course objectives	Throughout the whole course, students are required to read university-level texts to develop the ability to read critically and to respond accurately, coherently and academically in writing. Through providing them with crucial writing skills such as brainstorming, paraphrasing, idea developing, revising, and editing, this course prepares the students for research paper writing in the next level of AE2 writing.		
Course learning outcomes	Upon the successful completion of this course, students will be able to:		
	Competency level	Course learning outcome (CLO)	
	Knowledge	CLO1. Follow different steps in the writing process to produce a complete essay	
	Skill	CLO2. Use signal language that are specific for different functions (describe a process, discuss the causes and effects, compare and contrast, and make arguments) CLO3. Construct a complete essay including appropriately written thesis statement, topic sentences, and restatement CLO4. Provide a counter-argument and a rebuttal in an argumentative essay.	
	Attitude	CLO5. Display discipline, responsibilities, and ethical practices as an individual and a team member in attending class regularly and actively participating in class activities	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (2 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	The process of Academic Writing	1	I, T, U
	Paraphrasing	1	T, U
	From Paragraph to Essay	4	T, U
	Process Essays	4	T, U
	Cause/Effect Essays	4	T, U
	Comparison/ Contrast Essays	6	T, U
	Argumentative Essays	6	T, U
	Test, Review & Correction	4	U
Examination forms	Essay writing		
Study and examination requirements	<i>Attendance</i> Regular on-time attendance in this course is expected. A student will be allowed no more than three absences. It is compulsory that the students attend at least 80% of the course to be eligible for the final examination.		

	<i>Missed Tests</i> Students are not allowed to miss any of the tests (both Mid-term and Final). There are very few exceptions. Only with extremely reasonable excuses (eg. certified paper from doctors), students may re-take the examination. <i>Class Behaviors</i> Students are required to treat their studying in college as a full-time job and spend an adequate amount of time for this Writing AE1 course with approximately 8-10 hours per week (both in class and self-study). Accordingly, students are supposed to follow the obligations below: - Prepare thoroughly for each class in accordance with the course syllabus and complete home assignments as the instructor's request. - Participate fully and constructively in all course activities and discussions (if any). - Display appropriate courtesy to all involved in the class. - Provide constructive feedback to faculty members regarding their performance. <i>Plagiarism</i> Students are warned not to copy from other books or from their peers for all assessment tasks. Committing plagiarism will result in 0 point for the task. Students who plagiarize twice will be prohibited from sitting the final examination. Assignments/Examination: Students must have more than 50/100 points overall to pass this course.
Reading list	[1] Oshima, A., & Hogue, A. (2017). <i>Longman Academic Writing Series, Level 4: Essays</i> (5th ed.). New Jersey, NJ: Pearson Longman. [2] Oshima, A., & Hogue, A. (2006). <i>Longman Academic Writing Series, Level 4: Essays</i> (4th ed.). New Jersey, NJ: Pearson Longman.

2. Learning Outcomes Matrix (optional)

3. Planned learning activities and teaching methods

Week	Topic	CLO	Learning activities	Assessments	Resources
1	The process of Academic Writing Step 1: Creating (Prewriting) Step 2: Planning (Outlining) Step 3: Writing Step 4: Polishing Using Outside Sources Paraphrasing	1, 5	Lecture Group work Individual writing	Ongoing assessment & Midterm test	[2] pp. 265-279 [1] pp. 58- 65

Week	Topic	CLO	Learning activities	Assessments	Resources
	Plagiarism and how to avoid plagiarism				
2 & 3	From Paragraph to Essay The introductory paragraph: • General statements & Introductory techniques • Thesis statements & Logical division of ideas Body paragraphs: • Topic sentences The concluding paragraph: • Restatement Final thoughts Outlines of essays	1,3,5	Lecture Group work Individual writing	Ongoing assessment & Midterm test	[1] pp. 74– 100
4	Process Essays Introduction Analyzing the models Thesis statements for process essays Transitional signals	2,3,5	Lecture Group work Individual writing	Ongoing assessment & Midterm test	[1] pp. 101-115
5	Process Essays (Cont'd) In-class Assignment 1 Review/ Correction: Lecturer gives feedback to one or two students' writings in class.	2,3,5	Lecture Group work Individual writing	Ongoing assessment & Midterm test	[1] pp. 101-115
6	Cause/ Effect Essays Introduction Analyzing the models Organization Signal words and phrases	2,3,5	Lecture Group work Individual writing	Ongoing assessment & Midterm test	[1] pp. 116-132
7	Cause/ Effect Essays (Cont'd) In-class practice Review/ Correction: Lecturer gives feedback to students' writings in class.	2,3,5	Lecture Group work Individual writing	Ongoing assessment & Midterm test	[1] pp. 116 - 132
8	MIDTERM TEST				
9	Comparison/ Contrast Essays Introduction Analyzing the models Organization: • Points of comparison	2,3,5	Lecture Group work Individual writing	Ongoing assessment & Final exam	[1] pp. 133-151

Week	Topic	CLO	Learning activities	Assessments	Resources
	- Point-by-point organization - Block organization Comparison and Contrast signal words				
10	Comparison/ Contrast Essays (Cont'd) In-class practice Review/ Correction: Lecturer gives feedback to students' writings in class.	2,3,5	Lecture Group work Individual writing	Ongoing assessment & Final exam	[1] pp. 133-151
11	Comparison/ Contrast Essays (Cont'd) In-class Assignment 2 Review/ Correction: Lecturer gives feedback to one or two students' writings in class.	2,3,5	Lecture Group work Individual writing	Ongoing assessment & Final exam	[1] pp. 133-151
12	Argumentative Essays Introduction Analyzing the model Organization: Block vs. Point-by-point pattern The elements of an argumentative essay: - An explanation of the issue - A clear thesis statement - A summary of the opposing arguments - Rebuttals to the opposing arguments - Your own arguments The introductory paragraph: Thesis Statement Statistics as support	2,3,4,5	Lecture Group work Individual writing	Ongoing assessment & Final exam	[1] pp. 152-168
13	Argumentative Essays (Cont'd): In-class practice: - A summary of the opposing arguments - Rebutting an argument - Timed writing	2,4	Lecture Group work Individual writing	Ongoing assessment & Final exam	[1] pp. 152-168

Week	Topic	CLO	Learning activities	Assessments	Resources
14	Argumentative Essays (Cont'd) Review/ Correction: Lecturer gives feedback to one or two students' writings in class.	2,3,4,5	Lecture Group work Individual writing	Ongoing assessment & Final exam	[1] pp. 152-168
15	Sample final examination	2,3,4,5	Individual writing	Ongoing assessment & Final exam	

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	CLO5
Ongoing assessment (30%)	60% Pass	60% Pass	60% Pass	60% Pass	60% Pass
Midterm test (20%)	60% Pass	60% Pass	60% Pass		
Final exam (50%)	60% Pass	60% Pass	60% Pass	60% Pass	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

5.1. Midterm test rubrics (100 points)

TASK 1: Write 3 topic sentences and the restatement from a thesis statement: 40 points

Parts/ Points	Answers/ Criteria	CLO
Topic sentence 1 10 pts	○ The topic sentence introduces the topic and the controlling idea (1), starting with a transition signal*.	CLO 3
Topic sentence 2 10 pts	○ The topic sentence introduces the topic and the controlling idea (2), starting with a transition signal*.	CLO 3
Topic sentence 3 10 pts	○ The topic sentence introduces the topic and the controlling idea (3), starting with a transition signal*.	CLO 3
Restatement 10 pts	○ The 3 subtopics are well paraphrased: different words and structures while the meaning kept the same.	CLO 3

Notes:

The students are supposed to use **a variety of connecting devices (single word, phrase, clause, or sentence) to show their flexibility and expertise in writing.*

TASK 2: Write a Cause/Effect essay: 60 points

Answers/ Criteria	Parts/ Points	CLO
Language use and Mechanics A wide variety of sentence patterns and vocabulary are presented correctly. Language used for <i>Cause-Effect Essay</i> is good and Meaning is clear. Spelling, capitalization, punctuations are correct.	10	CLO 2

the relationship among ideas and to link paragraphs. (10)		
Conclusion: The conclusion summarizes the main points and paraphrases the thesis statement, begins with a conclusion signal, and leaves the readers with the writer's final thought on the topic. (10)	10 10	
Total	100	

Revised date: June 5th, 2025

Ho Chi Minh City, June 6th, 2025
Vice Dean of School of Languages
(Signature)



Dr. Vu Hoa Ngan



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Languages

COURSE SYLLABUS

Course Name: Listening AE1

Course Code: **EN008IU**

1. General information

Course name	- (in English) LISTENING AE1 (Listening and Note-taking) - (in Vietnamese) <i>Nghe AE1 (Nghe và ghi chú)</i>
Course designation	<i>The course is designed to prepare students for effective listening and note-taking skills, so that they can pursue the courses in their majors without considerable difficulty. The course is therefore lecture-based in that the teaching and learning procedure is built up on lectures on a variety of topics such as business, science, and humanities.</i>
Semester(s) in which the course is taught	1, 2, 3
Person responsible for the course	Lecturers of School of Languages
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lectures, lesson Individual practice Discussion Pair work Group work
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 90 Contact hours (lecture, exercise): 30 Private study including examination preparation, specified in hours ¹ : 60
Credit points	2 credits (Theory: 2 + Practice: 0) 3.08 ECTS (<i>optional</i>)
Number of periods	Theory: 30 Practice: 0

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the course	None								
Course objectives	There are a number of objectives embedded in various teaching activities in Listening AE1 course: - Pre-listening activities: aim to activate students' current knowledge of the topic, and to provide them with lecture language and effective strategies in listening and note-taking to prepare themselves for the coming lecture. These activities include reading (this can be done before class meetings), discussing and reviewing what they have learned from the reading. - While-listening and post-listening activities: aim to enable students to put their newly activated knowledge and acquired strategies into work by taking notes on the lecture, using the outline given by the teacher or prepared by themselves. They are later on asked to assess their understanding based on their notes and discuss them with their classmates. Finally, as an optional activity, depending on time and students' needs, students are asked to summarize the lecture. - Follow-up activities: students are required to discuss the lecture topic and to prepare arguments for or against the topic in the debate. The purpose is to enhance students' comprehension of the lecture, and to allow them to put their acquired academic language into practice, and to experience the atmosphere of a university lecture class.								
Course learning outcomes	Upon the successful completion of this course, students will be able to: <table border="1"> <thead> <tr> <th>Competency level</th><th>Course learning outcome (CLO)</th></tr> </thead> <tbody> <tr> <td>Knowledge</td><td>CLO1. Apply knowledge of lecture language in listening comprehension via giving accurate information</td></tr> <tr> <td>Skill</td><td>CLO2. Demonstrate appropriate listening strategies and note-taking skills in taking organized notes of academic lectures. CLO3. Perform listening comprehension in writing a summary of a lecture.</td></tr> <tr> <td>Attitude</td><td>CLO4. Display discipline, responsibilities, and ethical practices as an individual and a team member in attending class regularly and actively participating in class activities</td></tr> </tbody> </table>	Competency level	Course learning outcome (CLO)	Knowledge	CLO1. Apply knowledge of lecture language in listening comprehension via giving accurate information	Skill	CLO2. Demonstrate appropriate listening strategies and note-taking skills in taking organized notes of academic lectures. CLO3. Perform listening comprehension in writing a summary of a lecture.	Attitude	CLO4. Display discipline, responsibilities, and ethical practices as an individual and a team member in attending class regularly and actively participating in class activities
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Attitude	CLO4. Display discipline, responsibilities, and ethical practices as an individual and a team member in attending class regularly and actively participating in class activities								

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (2 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Orientation & Introduction of strategies and techniques in note-taking</td><td>2</td><td>I, T, U</td></tr><tr><td>Chapter 1: New Trends in Marketing Research</td><td>3</td><td>T, U</td></tr><tr><td>Chapter 2: Business Ethics</td><td>3</td><td>T, U</td></tr><tr><td>Chapter 3: Trends in Children’s Media Use</td><td>2</td><td>T, U</td></tr><tr><td>Chapter 4: The Changing Music Industry</td><td>2</td><td>T, U</td></tr><tr><td>Chapter 5: The Placebo Effect</td><td>2</td><td>T, U</td></tr><tr><td>Midterm Sample Test & Review</td><td>2</td><td>T, U</td></tr><tr><td>Chapter 6: Intelligent Machines</td><td>3</td><td>T, U</td></tr><tr><td>Chapter 7: Sibling Relationships</td><td>3</td><td>T, U</td></tr><tr><td>Chapter 8: Multiple Intelligences</td><td>3</td><td>T, U</td></tr><tr><td>Chapter 9: The Art of Graffiti</td><td>3</td><td>T, U</td></tr><tr><td>Final Sample Test & Review</td><td>2</td><td>T, U</td></tr></table>	Topic	Weight	Level	Orientation & Introduction of strategies and techniques in note-taking	2	I, T, U	Chapter 1: New Trends in Marketing Research	3	T, U	Chapter 2: Business Ethics	3	T, U	Chapter 3: Trends in Children’s Media Use	2	T, U	Chapter 4: The Changing Music Industry	2	T, U	Chapter 5: The Placebo Effect	2	T, U	Midterm Sample Test & Review	2	T, U	Chapter 6: Intelligent Machines	3	T, U	Chapter 7: Sibling Relationships	3	T, U	Chapter 8: Multiple Intelligences	3	T, U	Chapter 9: The Art of Graffiti	3	T, U	Final Sample Test & Review	2	T, U
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Examination forms	Paper-based tests: True-False questions, short-answer questions, open-ended questions (such as writing a summary paragraph)																																							
Study and examination requirements	<i>Attendance</i> Regular on-time attendance in this course is expected. It is compulsory that students attend atleast 80% of the course to be eligible for the final examination. <i>Missed tests</i> Students are not allowed to miss any of the tests (both on-going assessment and final test). There are very few exceptions. (Only with extremely reasonable excuses, e.g. certified paper from doctors, may students re-take the tests.) <i>Class behavior</i> Students are supposed to: • prepare thoroughly for each class in accordance with the syllabus and complete all assignments upon the instructor’s request • participate fully and constructively in all class activities (and discussions if any) • display appropriate courtesy to all involved in the class • provide constructive feedback to faculty members regarding their performance Assignments/Examination: Students must have more than 50/100 points overall to pass this course.																																							

Reading list	[1] Frazie, L., & Leeming, S. (2013). <i>Lecture ready 3</i>. Oxford: Oxford University Press. References: [2] Frazie, L., & Leeming, S. (2013). <i>Lecture ready 1, 2</i>. Oxford: Oxford University Press.

2. Learning Outcomes Matrix (optional)

3. Planned learning activities and teaching methods

Week	Topic	CLO	Learning activities	Assessments	Resources
1	ORIENTATION <u>Chapter 1</u> New Trends inMarketing Research Recognizing topic introducing and lectureplan presenting expressions Organizing ideas by outlining	1, 2, 4	Lecture Group work Individual task	Ongoing assessment Midterm test	[1] p.2-13
2	<u>Chapter 2</u> Business Ethics Recognizing transition expressions Using symbols and abbreviations	1, 2, 4	Lecture Group work Individual task	Ongoing assessment Midterm test	[1] p.14-25
3	REVIEW	1, 2, 4		Ongoing assessment Midterm test	Designed by lecturer
4	<u>Chapter 3</u> Trends in Children's Media Use Recognizing generalization and support expressions	1, 2, 4	Lecture Group work Individual task	Ongoing assessment Midterm test	[1] p.28-39
5	<u>Chapter 4</u> The Changing Music Industry Recognizing expressions for clarification or emphasis Organizing notes byusing a split-page format	1, 2, 4	Lecture Group work Individual task	Ongoing assessment Midterm test	[1] p.40-52
6	<u>Chapter 5</u> The Placebo Effect Recognizing cause andeffect expressions	1, 2, 4	Lecture Group work	Ongoing assessment Midterm test	[1] p.54-65

Week	Topic	CLO	Learning activities	Assessments	Resources
	Noting causes and Effects		Individual task		
7	REVIEW SAMPLE MIDTERM EXAM + CORRECTION	1, 2, 4		Ongoing assessment Midterm test	Designed by lecturer
8	MIDTERM TEST				
9	<u>Chapter 6</u> Intelligent Machines Recognizing expressions used to predict causes and effects Using arrows to show the relationship between causes and effects	1-4	Lecture Group work Individual task	Ongoing assessment Final exam	[1] p.66-78
10	<u>Chapter 7</u> Sibling Relationships Recognizing expressions of comparison and contrast Noting comparison and contrast	1-4	Lecture Group work Individual task Lecture Group work Individual task	Ongoing assessment Final exam	[1] p.80-91
11	REVIEW <u>In-class assignment</u>	1-4 1, 2, 4		Ongoing assessment Final exam	Designed by lecturer
12	<u>Chapter 8</u> Multiple Intelligences Recognizing non-verbal signals indicating important information Representing information in list form	1-4	Lecture Group work Individual task	Ongoing assessment Final exam	[1] p.92-104
13	<u>Chapter 9</u> The Art of Graffiti Recognizing expressions of definition Reviewing and practicing all note taking strategies	1-4	Lecture Group work Individual task	Ongoing assessment Final exam	[1] p.105-117
14	REVIEW	1-4		Ongoing assessment Final exam	Designed by lecturer

Week	Topic	CLO	Learning activities	Assessments	Resources
15	<u>Sample final exam + Correction</u>	1-4		Ongoing assessment Final exam	
FINAL EXAMINATION					

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
Ongoing assessment (30%)	60% Pass	60% Pass		60% Pass
Midterm test (20%)	Part 1 60% Pass	Part 2 60% Pass		
Final exam (50%)	Part 1 60% Pass	Part 2 60% Pass	Part 3 60% Pass	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

5.1. Rubrics for Midterm test

Part	Task	CLO
1	Listen to part of a lecture and decide whether these statements are TRUE or FALSE. (40 pts)	1
2	Listen to a talk and fill in the summary notes (60 pts)	2

5.2. Rubrics for Final exam

Part	Task	CLO
1	Listen to part of a lecture and decide whether these statements are TRUE or FALSE. (30 pts)	1
2	Listen to a talk and fill in the summary notes (50 pts)	2
3	Write a short paragraph summarizing the main ideas. (20 pts.)	3

Evaluative criteria for Part 3

- Content accuracy (16 pts):** All statements are accurate and relevant. Summary includes main idea and important details of the given lecture.
- Organization & Grammar (4 pts):** The summary is in the form of a paragraph. No/minor punctuation/grammatical/spelling errors.

Revised date: June 5th, 2025

Ho Chi Minh City, June 6th, 2025
Vice Dean of School of Languages
(Signature)

Dr. Vu Hoa Ngan



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Languages

COURSE SYLLABUS
Course Name: Writing AE2
Course Code: **EN011IU**

1. General information

Course name	- (in English) WRITING AE2 (Research Paper Writing) - (in Vietnamese) <i>Viết AE2 (Viết bài nghiên cứu)</i>
Course designation	<i>This course introduces basic concepts in research paper writing, especially the role of generalizations, definitions, classifications, and the structure of a research paper to students who attend English- medium college or university. It also provides them with methods of developing and presenting an argument, a comparison or a contrast.</i>
Semester(s) in which the course is taught	1, 2, 3
Person responsible for the course	Lecturers of School of Languages
Language	English
Relation to curriculum	☒ Compulsory ☐ Elective
Teaching methods	Lectures, lesson Individual practice Discussion Pair work Group work Project
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 90 Contact hours (lecture, exercise): 30 Private study including examination preparation, specified in hours ¹ : 60
Credit points	2 credits (Theory: 2 + Practice: 0) 3.08 ECTS (<i>optional</i>)

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the course	Previous course: Writing AE1 (EN007IU)	
Course objectives	Students are required to work on the tasks selected to maximize their exposure to written communication and are expected to become competent writers in the particular genre: the research paper. As writing is part of an integrated skill of reading and writing where reading serves as input to trigger writing, this course is designed to familiarize non-native students with academic literature in their major study by having them read and critically respond to texts of a variety of topics ranging from natural sciences such as biology to social sciences and humanities like education, linguistics and psychology.	
Course learning outcomes	Upon the successful completion of this course, students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Apply knowledge about conceptual categories-classifications, the structure of a research paper and appropriate academic language in writing a research paper
	Skill	CLO2: Perform skills and strategies for reading critically, analyzing, and annotating academic texts in written summary CLO3. Demonstrate research writing skills to present an argument, a comparison, or a contrast in their academic study.
	Attitude	CLO4. Display discipline, responsibilities, and ethical practices as an individual and a team member in attending class regularly and actively participating in class activities

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (2 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Unit 1: The Academic Writing Process Introduction	4	I, T, U
	Unit 2: Researching and Writing	2	T, U
	Unit 3: Fundamentals & Feedback	2	T, U
	Unit 4: Definitions, Vocabulary & Clarity	2	T, U
	Unit 5: Generalizations, Facts and Honesty	4	T, U
	Unit 6: Seeing Ideas and Sharing Texts	2	T, U
	Unit 7: Description, Methods & Reality	2	T, U
	Unit 8: Results, Discussion & Relevance	2	T, U
	Unit 9: The Whole Academic Text	2	T, U
Unit 10: Creating the Whole Text	4	T, U	
Course Review	2	U	
Examination forms	Open-ended questions; Essay writing		

Study and examination requirements	<i>Attendance</i> Regular on-time attendance in this course is expected. A student will be allowed no more than three absences. It is compulsory that the students attend at least 80% of the course to be eligible for the final examination. <i>Assignment (Literature review)</i> Purpose: Students will use the knowledge of paraphrasing, summarising, developing arguments, and APA styles to write a 1,000-word literature review on a research scope of their choice. Task: – Follow guidelines on how to write a literature review. – Use relevant academic writing skills such as paraphrasing, summarising, developing arguments, and APA 7th Style Guidelines – see https://www.apastyle.org/ – Develop arguments in relation to the research scope and identify the research gap Notes: All papers should be typed, double-spaced, in 13-pt font, and with 1-inch margins. All papers must be original for this class. Criterion-referenced grading is used in this course. <i>Missed Tests</i> Students are not allowed to miss any of the tests (both Mid-term and Final). There are very few exceptions. Only with extremely reasonable excuses (eg. certified paper from doctors), students may re-take the examination. <i>Class Behaviors</i> Students are required to treat their studying in college as a full-time job and spend an adequate amount of time for this Writing AE2 course with approximately 8-10 hours per week (both in class and self-study). Accordingly, students are supposed to follow the obligations below: - Prepare thoroughly for each class in accordance with the course syllabus and complete home assignments as the instructor's request. - Participate fully and constructively in all course activities and discussions (if any). - Display appropriate courtesy to all involved in the class. - Provide constructive feedback to faculty members regarding their performance. <i>Plagiarism</i> All forms of plagiarism and unauthorised collusion are seriously regarded and could result in penalties. Plagiarism occurs when students copy or reproduce people's words or ideas and then present them as students' own work without proper acknowledgement, including when students copy the work of their fellow students. Plagiarism in student submissions can be detected by: • some web-based programs such as SafeAssign or Turnitin, or • examiner's judgments with evidence of originals

	The rater will review the paper to check if citations or references are provided properly. Penalties due to improper citations or references include: <table border="1"> <thead> <tr> <th>Degree of magnitude</th><th>Description</th></tr> </thead> <tbody> <tr> <td>Below 15%</td><td>Marked as it is.</td></tr> <tr> <td>15% - 25%</td><td>The score is deducted by 25%.</td></tr> <tr> <td>25% - 40%</td><td>The score is deducted by 50%</td></tr> <tr> <td>Over 40%</td><td>The score is 0.</td></tr> </tbody> </table> Notes: Part of the test is marked as it is if no plagiarism is detected. Students who plagiarize over 40% <u>twice</u> will be prohibited from sitting the final examination. <i>Assignments/Examination:</i> Students must have more than 50/100 points overall to pass this course.	Degree of magnitude	Description	Below 15%	Marked as it is.	15% - 25%	The score is deducted by 25% .	25% - 40%	The score is deducted by 50%	Over 40%	The score is 0 .
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Reading list	[1] Hamp-Lyons, L., & Heasley, B. (2006). <i>Study Writing</i>. Cambridge, UK: Cambridge University Press [2] Articles and Essays taken from <i>The Allyn and Bacon Guide to Writing</i> by Ramage et al (2009), Pearson Longman. [3] Cormack, J. & Slaughter, J. (2009). <i>English for academic study: Extended writing and research skills</i>. Cambridge: Cambridge University Press. Garnet Education [4] Folse, K. S. & Pugh, T. (2010). <i>Great writing 5: Greater essays</i>. Boston: Heinle, Cengage Learning. [5] Keezer, S. (Ed.) (2003). <i>Write your research report: A real-time guide</i>. New Jersey: Pearson Learning Group. [6] Kumar, R. (2019). <i>Research methodology: A step-by-step guide for beginners</i>. Sage Publications										

2. Learning Outcomes Matrix (optional)

3. Planned learning activities and teaching methods

Week	Topic	CLO	Learning activities	Assessments	Resources
1	Orientation of the Course Unit 1: The Academic Writing Process Introduction Thinking about writing processes Distinguishing between academic and personal styles of writing Grammar of academic discourse	1, 3	Lecture Group work Individual task	Ongoing assessment & Midterm test	[1] pp. 15-22

Week	Topic	CLO	Learning activities	Assessments	Resources
2	Unit 2: Researching and Writing Recognizing categories and classification The language of classification The structure of a research paper	1, 3	Lecture Group work Individual task	Ongoing assessment & Midterm test	[1] pp. 25-31
3	Unit 3: Fundamentals & Feedback Exploring comparison and contrast structures The language of comparison and contrast Using comparisons and contrasts to evaluate and recommend	1, 3	Lecture Group work Individual task	Ongoing assessment & Midterm test	[1] pp. 35-44
4	Unit 3: Fundamentals & Feedback (Cont.) The research paper Identifying a research gap The writing process	1, 3	Lecture Group work Individual task	Ongoing assessment & Midterm test	[1] pp. 45-49
5	Unit 4: Definitions, Vocabulary & Clarity The clarity principle The language of definition The place of definition in academic text The writing process	1, 2, 3	Lecture Group work Individual task	Ongoing assessment & Midterm test	[1] pp. 50-59
6	Unit 5: Generalizations, Facts and Honesty Honesty principle The language of generalization	1, 2, 3	Lecture Group work Individual task	Ongoing assessment & Midterm test	[1] pp. 60-68
7	Unit 5: Generalizations, Facts and Honesty (Cont.) Writing a literature review The writing process Brainstorming and clustering APA 7th Style Guidelines – see https://www.apastyle.org/ Sample midterm exam + Correction	1, 2, 3		Ongoing assessment & Midterm test	[1] pp. 69-74
8	MIDTERM TEST				
9	Unit 6: Seeing Ideas and Sharing Texts Writing about events in time Connecting events Reading and writing about visuals	1, 3	Lecture Group work Individual task	Ongoing assessment & Final exam	[1] pp. 75-88

Week	Topic	CLO	Learning activities	Assessments	Resources
	Learning about peer reviews				
10	Unit 7: Description, Methods & Reality Describing processes and products The language for writing about processes Writing the Methods section Giving and getting formal peer feedback	1, 3	Lecture Group work Individual task	Ongoing assessment & Final exam	[1] pp. 89-103
11	Unit 8: Results, Discussion & Relevance What is an argument? The language of argument The Results and Discussion sections Finding an academic voice	1, 3	Lecture Group work Individual task	Ongoing assessment & Final exam	[1] pp. 104-118
12	Unit 9: The Whole Academic Text S-P-S-E: Focus on structure S-P-S-E in the introduction The language of coherence and connection Teacher evaluation	1, 2, 3	Lecture Group work Individual task	Ongoing assessment & Final exam	[1] pp. 119-133
13	Unit 10: Creating the Whole Text Structure of the research paper Creating your own research	1, 2, 3	Lecture Group work Individual task	Ongoing assessment & Final exam	[1] pp. 134-139
14	Unit 10: Creating the Whole Text Plagiarism Creating citations Paraphrase and summary Authorial identity	1-4	Lecture Group work Individual task	Ongoing assessment & Final exam	[1] pp. 140-148
15	<u>Sample final exam + Correction</u>	1-4		Ongoing assessment & Final exam	
FINAL EXAMINATION					

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
Ongoing assessment (30%)	60% Pass	60% Pass	60% Pass	60% Pass
Midterm test (20%)	Part 1 60% Pass		Part 2 60% Pass	
Final exam (50%)		Part 1 60% Pass	Part 2 60% Pass	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

5.1. Rubrics for Midterm test

Part 1: (30 pts) Read a given text and create a graphic display or an outline that categorises the two-level classifications made in the text. (CLO1)

Part 2: (70 pts) Write a comparison/ contrast essay of about 350 words on ONE of the given topics. Pay attention to the use of academic language and a clear text structure.

Content	All main points relevant to the topic The essay question fully answers	20	CLO 3
Organization	Topic and purpose of the essay discussed in the introduction Each main point discussed in a paragraph All main points summarized and rephrased in the conclusion	20	CLO 3
Coherence	Paragraphs are ordered in a systematic manner based on, for example, importance, priority, etc. Compare/contrast transitions are properly used.	15	CLO 3
Style and Tone	Formal writing with full forms Polite writing Academic vocabulary	15	CLO 3

5.2. Rubrics for Final Exam

Part 1: (30 pts) Write a summary of a given text.

CATEGORIES	CRITERIA	POINTS	CLO
Accuracy and completeness of the content (10 pts)	– The summary contains all of the key ideas in the original, reflecting complete and accurate information about the source.	10	CLO2
Paraphrasing (10 pts)	– All sentences should reveal students' ability in varying the language to avoid repetition.	10	CLO2
Organization (5 pts)	– The summary starts with a general evaluation and includes several sub-topics that explain key ideas from the original.	3	CLO2
	– The summary is organized and coherent.	2	

Grammar, usage and mechanics (5 pts)	– All sentences are clear, accurate and complete. – The summary contains one or two minor errors, but these do not obscure the meaning.	3 2	CLO2
Total		30	

Part 2: (70 pts) Write an argumentative essay of about 350 words on ONE of the given topics. Pay attention to the use of academic language and a clear text structure.

Content	All main points relevant to the topic The essay question fully answers	20	CLO 3
Organization	Topic and purpose of the essay discussed in the introduction Each main point discussed in a paragraph All main points summarized and rephrased in the conclusion	20	CLO 3
Coherence	Paragraphs are ordered in a systematic manner based on, for example, importance, priority, etc. Compare/contrast transitions are properly used.	15	CLO 3
Style and Tone	Formal writing with full forms Polite writing Academic vocabulary	15	CLO 3

Date revised: 2 June, 2025

Ho Chi Minh City, 6 June, 2025
Vice Dean of School of Languages
(Signature)



Dr. Vũ Hoa Ngân



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Languages

COURSE SYLLABUS

Course Name: Speaking AE2

Course Code: **EN012IU**

1. General information

Course name	- (in English) SPEAKING AE2 (Effective Presentations) - (in Vietnamese) Nói AE2 (Bài thuyết trình hiệu quả)
Course designation	<i>Giving presentations today becomes a vital skill for students to succeed not only in university but also at work in the future. Speaking AE2, therefore, provides students with the knowledge and skills needed to deliver effective presentations (informative and persuasive presentations).</i>
Semester(s) in which the course is taught	1, 2, 3
Person responsible for the course	Lecturers of School of Languages
Language	English
Relation to curriculum	☒ Compulsory ☐ Elective
Teaching methods	Lecture, lesson, mini presentations
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 90 Contact hours (lecture, exercise): 30 Private study including examination preparation, specified in hours ¹ : 60
Credit points	2 credits (Theory: 2 + Practice: 0) 3.08 ECTS (<i>optional</i>)
Required and recommended prerequisites for joining the course	- Previous courses: None

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course objectives	Speaking AE2 aims at introducing many aspects of giving a presentation: building up confidence, preparing and planning, using the appropriate language, applying effective visual aids, applying delivery techniques, dealing with questions and responding, performing body language, and so on.		
Course learning outcomes	Upon the successful completion of this course, students will be able to:		
	Competency level	Course learning outcome (CLO)	
	Knowledge	CLO1: Apply effective visual aids in preparing and planning well-organized academic presentations	
	Skill	CLO2: Use appropriate language for academic presentations CLO3: Perform delivery techniques, body language and other para-linguistic elements in academic presentation CLO4: Demonstrate techniques to handle audience questions	
	Attitude	CLO5: Display discipline, responsibilities, and ethical practices as an individual and a team member in attending class regularly and actively participating in class activities	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (2 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Orientation & Introduction	2	I, T, U
	Needs analysis		
	Building up confidence	2	T, U
	The first few minutes	2	T, U
	Organizing what you want to say	2	T, U
	Summarizing and concluding	2	T, U
	Using equipment	2	T, U
	Delivery techniques: Putting it all together	2	T, U
	Group presentations for the instructor’s evaluation and advice	2	U
	Introduction to persuasive speeches	2	T, U
	Methods of persuasion	2	T, U
	Maintaining interest	2	T, U
	Dealing with problems and questions	2	T, U
	Body language	2	T, U
	Individual presentations for the instructor’s evaluation and advice	4	U

Examination forms	Oral Presentations
Study and examination requirements	<i>Attendance</i> Regular on-time attendance in this course is expected. A student will be allowed no more than three absences. It is compulsory that the students attend at least 80% of the course to be eligible for the final examination. <i>Missed Tests</i> Students are not allowed to miss any of the tests (both Mid-term and Final). There are very few exceptions. Only with extremely reasonable excuses (e.g. certified paper from doctors), students may re-take the examination. <i>Class Behaviors</i> Students are required to treat their studying in college as a full-time job and spend an adequate amount of time for this Speaking AE2 course with approximately 8-10 hours per week (both in class and self-study). Accordingly, students are supposed to follow the obligations below: • Prepare thoroughly for each class in accordance with the course syllabus and complete home assignments as the instructor's request. • Participate fully and constructively in all course activities and discussions (if any). • Display appropriate courtesy to all involved in the class. • Provide constructive feedback to faculty members regarding their performance. <i>Plagiarism</i> Students are warned not to copy from other books or from their peers for all assessment tasks. Committing plagiarism will result in 0 point for the task. Students who plagiarize twice will be prohibited from sitting the final examination. Assignments/Examination: Students must have more than 50/100 points overall to pass this course.
Reading list	[1] Lowe, S, & Pile, L. (2011). <i>Presenting</i>. Singapore: Cengage Learning [2] Comfort, J. (1996). <i>Effective presentations</i>. Oxford: Oxford University Press [3] Lucas, S. (2019). <i>The art of public speaking</i> (13th ed.). New York: McGraw-Hill Education. [4] Suzy Siddons. (2008). <i>The Complete Presentation Skills Handbook</i>, U.S. U.K.

2. Learning Outcomes Matrix (optional)

3. Planned learning activities and teaching methods

Week	Topic	CLO	Learning activities	Assessments	Resources
1	1. Orientation & Introduction 2. Needs analysis 3. Instructions for video making of self-introduction	1, 5	Lecture	Ongoing assessment Midterm test	[1] Presenting, p. 5 [3]* The Art of Public Speaking, Chapter 6 + videos of introductory speeches
2	Introduction to informative speeches Unit 1: The first few minutes	1, 2, 5	Lecture, Group work	Ongoing assessment Midterm test	[1] Presenting, pp. 8-13 [2] Effective Presentations: p.7 + video clip; p.13+ video clip [3] The Art of Public Speaking, Chapter 10 [3]* The Art of Public Speaking, Chapter 15
3	Unit 3: Organizing what you want to say	1, 2, 5	Lecture, Group work	Ongoing assessment Midterm test	[1] Presenting, pp. 22-27) [2] Effective Presentations: p.19 + video clip [3]* The Art of Public Speaking, Chapters 8+9
4	Unit 6: Summarizing and concluding	1, 2, 3, 5	Lecture, Group work	Ongoing assessment Midterm test	[1] Presenting, pp. 40-45 [2] Effective Presentations: p.41 + video clip [3]* The Art of Public Speaking, Chapters 10
5	Unit 2: Using equipment	1, 2, 3, 5	Lecture	Ongoing assessment Midterm test	[1] Presenting, pp. 14-21) [2] Effective Presentations: p.31 + video clip [3]* The Art of Public Speaking, Chapters 14
6	Delivery techniques: Putting it all together	1, 2, 3, 5	Lecture, Group work	Ongoing assessment Midterm test	[2] Effective Presentations: p.50 + video clip Assignment: Topic(s) for group presentation) [3]* The Art of Public Speaking, Chapters 13

Week	Topic	CLO	Learning activities	Assessments	Resources
7	Group practice <u>or</u> reserved week for midterm exam (big class)	1, 2, 3, 5	Group work Individual work	Ongoing assessment Midterm test	
8 + 9	MIDTERM TEST: Individual informative presentation (4-6 minutes)				
10	Introduction to persuasive speeches	1, 5	Lecture, Group work	Ongoing assessment Final exam	[3] The art of public speaking, Chapter 15 (Handout given by the instructor)
11	Methods of persuasion	1, 2, 3, 5	Lecture, Group work	Ongoing assessment Final exam	[3] The art of public speaking, Chapter 16 (Handout given by the instructor)
12	Unit 4: Maintaining interest	1, 2, 3, 5	Lecture, Group work	Ongoing assessment Final exam	[1] Presenting: pp. 28-33) [2] Effective Presentations: p.25 + video clip)
13	Unit 5: Dealing with problems and questions	4, 5	Lecture, Group work	Ongoing assessment Final exam	[1] Presenting: pp. 34-39) [2] Effective Presentations: p.44 (Question time) [3]* The Art of Public Speaking, Chapters 13
14	Unit 6: Body language	3, 5	Lecture, Group work	Ongoing assessment Final exam	[2] Effective Presentations: pp.36-39 [3]* The Art of Public Speaking, Chapters 13
15	Practice Wrap-up	1-5	Group work	Ongoing assessment Final exam	
	FINAL EXAM: Individual persuasive presentation (6-8 minutes)				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	CLO5
Ongoing assessment (30%)	60% Pass	60% Pass	60% Pass	60% Pass	60% Pass
Midterm test (20%)	Criteria 4-7 60% Pass	Criteria 1-2 60% Pass	Criterion 3 60% Pass		
Final exam (50%)	Criteria 4-6 60% Pass	Criteria 1-2 60% Pass	Criterion 3 60% Pass	Criterion 4 60% Pass	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics

5.1. Rubrics for Midterm test

No	Criteria	CLO
1	Pronunciation & Voice Techniques (Pause, Volume, Speed Change, Stress, Tone, etc.) (15 pts)	2
2	Language use: Grammar & Vocabulary (usage and appropriateness for audience) (15 pts)	2
3	Body Language: Gestures, Eye contact, Facial expressions, Appearance (10 pts)	3
4	Organization: Intro, Body, Ending, Coherence (20 pts)	1
5	Content: Relevance, Accuracy (20 pts)	1
6	Visual aids: Appropriateness, Clarity (10 pts)	1
7	Overall effectiveness (10 pts)	1

5.2. Rubrics for Final exam

No	Criteria	CLO
1	Pronunciation & Voice Techniques (Pause, Volume, Speed Change, Stress, Tone, etc.) (15 pts)	2
2	Language use: Grammar & Vocabulary (usage and appropriateness for audience) (10 pts)	2
3	Body Language: Appearance, Posture, Gestures, Eye contact, Facial expression (15 pts)	3
4	Organization: Intro, Body, Ending, Coherence (15 pts)	1
5	Content: Relevant, Accurate, Informative and Persuasive (20 pts)	1
6	Visual aids: Appropriateness, Clarity (15 pts)	1
7	Question response (10 pts)	4

Revised date: June 2nd, 2025

Ho Chi Minh City, June 6, 2025

Vice Dean of School of Languages



Dr. Vũ Hoa Ngân



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: ENGINEERING MECHANICS AND MECHANICS OF MATERIALS

Course Code: **CE105IU**

1. General Information

Course name	- <i>ENGINEERING MECHANICS AND MECHANICS OF MATERIALS</i> - <i>CƠ KỸ THUẬT VÀ SỨC BỀN VẬT LIỆU</i>
Course designation	CE105IU – Engineering Mechanics and Mechanics Of Materials Forces, moments, and couples; resultants of force systems; equilibrium analysis and free-body diagrams; analysis of forces acting on members of trusses, frames, etc.; Coulomb friction; centroids, center of mass, resultant of a distributed force system, moment of inertia, parallel-axis theorem, rotated-axis theorem, internal force diagrams of beams.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> ☐ <i>Others:</i>
Semester(s) in which the course is taught	3
Person responsible for the course	Dr. Nguyen, Ba Quang Vinh
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45

	Private study including examination preparation, specified in hours ¹ : 90																							
Credit points	3 credits/ 4.64 ETCS																							
Number of periods	Theory: 45 Practice: 0																							
Required and recommended prerequisites for joining the course	None																							
Course objectives	Overall objectives The course provides students with knowledge of solving equilibrium problems involving trusses, frames and machines; the laws of dry friction and apply it to solve equilibrium problems involving static friction; properties of areas and be able to calculate centroids and inertia moments of an area; and applying the concept of internal forces in members, and be able to draw shear and bending-moment diagrams for beams.																							
Course learning outcomes	Upon the successful completion of this course students will be able to: <table><tr><th>Competency level</th><th>Course learning outcome (CLO)</th></tr><tr><td>Knowledge</td><td>CLO1: An understanding of equilibrium equations to analyze engineering problems.</td></tr><tr><td>Skill</td><td>CLO2: An ability to determine the internal forces and draw diagrams for beams and trusses. CLO3: An ability to calculate centroids and moments of inertia of various cross sections.</td></tr><tr><td>Attitude</td><td></td></tr></table>			Competency level	Course learning outcome (CLO)	Knowledge	CLO1: An understanding of equilibrium equations to analyze engineering problems.	Skill	CLO2: An ability to determine the internal forces and draw diagrams for beams and trusses. CLO3: An ability to calculate centroids and moments of inertia of various cross sections.	Attitude														
Competency level	Course learning outcome (CLO)																							
Knowledge	CLO1: An understanding of equilibrium equations to analyze engineering problems.																							
Skill	CLO2: An ability to determine the internal forces and draw diagrams for beams and trusses. CLO3: An ability to calculate centroids and moments of inertia of various cross sections.																							
Attitude																								
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction</td><td>1</td><td>I</td></tr><tr><td>Forces</td><td>1</td><td>T</td></tr><tr><td>Equilibrium</td><td>1</td><td>T, U</td></tr><tr><td>Structural analysis</td><td>2</td><td>T, U</td></tr><tr><td>Stress and strain</td><td>1</td><td>T, U</td></tr><tr><td>Geometric properties</td><td>2</td><td>T, U</td></tr></table>			Topic	Weight	Level	Introduction	1	I	Forces	1	T	Equilibrium	1	T, U	Structural analysis	2	T, U	Stress and strain	1	T, U	Geometric properties	2	T, U
Topic	Weight	Level																						
Introduction	1	I																						
Forces	1	T																						
Equilibrium	1	T, U																						
Structural analysis	2	T, U																						
Stress and strain	1	T, U																						
Geometric properties	2	T, U																						

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Internal forces and diagrams	6	T, U	
	Review	1	T	
Examination forms	Constructed-response test			
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.			
Reading list	Textbook: [1] R. C. Hibbeler, Static and Mechanics of Materials, 4th Ed., Pearson, 2014. References: [1] J. L. Meriam and L.G Kraige, Engineering Mechanics – Statics and Dynamics, 5th edition, Wiley, 2002.			

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: An understanding of equilibrium equations to analyze engineering problems.
- (2) CLO2: An ability to determine the internal forces and draw diagrams for beams and trusses.
- (3) CLO2: An ability to calculate centroids and moments of inertia of various cross sections.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1	x									
CLO2	x		x							
CLO3	x		x							

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.

- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Chapter 1 Introduction 1.1. Fundamental concepts 1.2. Systems of Units 1.3. Vector overview Chapter 2 Forces 2.2 Forces as vectors 2.2 Two-dimensional force systems	L.O.1	Exercise 1	Lecture Class discussion	[1] Chapter 1, 2
2	2.3 Three-dimensional force systems 2.4 System of forces, moment and couples 2.5 Equivalent systems	L.O.1	Exercise 2	Lecture Class discussion	[1] Chapter 2
3	Chapter 3 Equilibrium 3.1 Conditions for equilibrium 3.2 Free-body diagrams 3.3 Equilibrium equations for 2D 3.4 Friction	L.O.1	Exercise 3	Lecture Class discussion	[1] Chapter 4
4	Chapter 4 Structural analysis 4.1 Trusses 4.2 The method of joints 4.3 The method of sections	L.O.1	Exercise 4	Lecture Class discussion	[1] Chapter 5
5	4.4 Frames	L.O.1	Exercise 5	Lecture Class discussion	[1] Chapter 5
6	Chapter 5 Stress and strain 5.1 Stress 5.2 Strain 5.3 Deformation	L.O.2	Exercise 6	Lecture Class discussion	[1] Chapter 7
7	Chapter 6 Geometric properties 6.1 Center of gravity and mass 6.2 Centroid for a body 6.3 Resultant of a distributed force system	L.O.2	Exercise 7	Lecture Class discussion	[1] Chapter 6

Week	Topic	CLO	Assessments	Learning activities	Resources
8	6.4 Moments of inertia for areas 6.5 Parallel-axis theorem 6.6 Rotated-axis theorem Midterm Exam	L.O.3	Exercise 8 Midterm Exam	Test	[1] Chapter 6
9	Chapter 7 Internal forces and diagrams 7.1 Internal forces in beams	L.O.2	Exercise 11	Lecture Class discussion	[1] Chapter 11
10	7.2 Axial load	L.O.2	Exercise 12	Lecture Class discussion	[1] Chapter 11
11-12	7.2 Shear force	L.O.2	Exercise 13-14	Lecture Class discussion	[1] Chapter 11
13-14	7.3 Bending moment diagrams Object-oriented programming in drawing shear force and bending moment diagrams	L.O.2	Exercise 15-16	Lecture Class discussion	[1] Chapter 11
15	REVIEW	L.O.1, L.O.2, L.O.3	Exercise 17	Class discussion	
16-17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
Homework exercises/ Presentation (20%)	Ex1-Ex6 50% Pass	Ex11-Ex17 50%Pass	Ex7, Ex8 50%Pass
Midterm exam (30%)	50% Pass	50% Pass	
Final exam (50%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: June 02, 2025

Ho Chi Minh City, June 02, 2025

Dean of School

A handwritten signature in blue ink, consisting of a stylized 'H' followed by a long, sweeping horizontal line that extends to the right.

Dr. Nguyễn Hoài Nghĩa



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Construction Materials

Course Code: CE210IU

1. General information

Course name	CE210IU – Construction Materials CE210IU – Vật liệu xây dựng
Course designation	<i>The course will introduce both conventional and modern construction materials that are commonly used in civil engineering construction. These are concrete, steel, asphalt concrete and other construction materials such as concrete, cement, brick, mortar, steel, asphalt and so on. Properties of materials will be taught and discussed. Students will find out what properties are the advantages and disadvantages of materials. Therefore, material applications and detailing in structural and non-structural building components are explored. Construction materials should be harmonized to the environmental sustainability, resource durability, capitalizing on using local materials and less fee to strengthen and retrofit, using local materials also satisfy culture, economic and social justice. Resulting from this course, students will gain a comparative knowledge of material properties and possible applications in construction.</i>
Course type	☐ General knowledge Fundamental ☐ ☒ Specialized knowledge Internship/Project/Thesis Others: ☐ ☐
Semester(s) in which the course is taught	1, 2
Person responsible for the course	Assoc. Prof. Tran Van Mien
Language	English
Relation to curriculum	Compulsory

Teaching methods	Lecture, lesson, homework, discussion
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS
Number of periods	Theory: 45 Practice: 00
Required and recommended prerequisites for joining the course	- Prerequisites: none - Corequisites: none - Previous course: CE201IU - Mechanics of Materials 1; or CE105IU - Engineering Mechanics and Mechanics of Materials
Parallel course	
Course objectives	The course provides students with basic definitions, the physical, chemical and mechanical properties of various construction materials that are commonly used in civil engineering construction. Students are guided to be able to appreciate the criteria for choosing the appropriate materials and indigenous resources, and various tests to control the quality of these materials in applying for stability, durability, sustainability and saving of resources, and development of practices. The course raises awareness of using suitable materials based on their properties to protect a sustainable environment, economy, and cultural awareness towards the social and societal calls.

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course learning outcomes	Upon the successful completion of this course students will be able to:		
	Categories	Course learning outcome (CLO)/ Competency	
	Knowledge	CLO1. Understand basic definitions and physical, chemical, and mechanical properties of various construction materials for civil engineering, particularly the meaning of each property and how to apply with sustainability. Classify types of construction material based on their advantages and disadvantages properties for civil engineering that are affected the quality of structures and the environment.	
	Skills	CLO2. Evaluate the suitable quality of construction materials with sustainable criteria and determine the materials' properties using equipment. Able to use social network technology to find material, its properties, and its application in civil engineering. CLO3. Design some mix proportions of some composite construction materials using local materials, industrial waste (fly ash, silica fume, Fluid catalytic cracking), and recycled materials such as types of Portland concrete, types of asphalt concrete, mortar, grout, composite materials with fibers and so on.	
	Attitude	CLO4. Be aware of choosing construction materials for suitable purposes and economics in civil engineering. Construction materials cause problems for the environment. So, we have to consider choosing suitable materials to minimize the negative effects on the environment.	
Content	The description of the contents should clearly indicate the weighting of the content and the level. Weight: lecture session (2 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Introduction to construction materials	0.5	I, T
	Basic properties of construction materials	2	I, T, U
	Natural rocks	0.5	I, T, U
	Ceramics	2	I, T, U
	Portland cement	3	I, T, U
	Properties of fresh and harden concrete	2	I, T, U
	Mix proportion of normal concrete	1	I, T, U
	Specials concretes, asphalt concrete	1	I, T, U
	Steel	1	I, T, U
	Other materials, sustainable materials	2	I, T, U
	Examination forms	Written examination: Mid-term and Final examinations	

Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have GPA of more than 50/100 points overall to pass this course.
Reading list and Media employed	<u>Textbooks:</u> [1] Michael S. Mamlouk and John P. Zaniewski, <i>Materials for Civil and Construction Engineers</i>, Prentice Hall, 2005. [2]. Steven H. Kosmatka, Beatrix Kerkhoff, and William C. Panarese, <i>Design and Control of Concrete Mixtures</i>, 14th Ed., Portland Cement Association, 2008. <u>Additional references:</u> [3] Neil Jackson and Ravindra K. Dhir, <i>Civil engineering materials</i>, 4th Ed, Palgrave Macmillan, 1996. [4] Phùng Văn Lự và các tác giả, <i>Giáo trình vật liệu xây dựng</i>, NXB Giáo dục, 2000. [5] Phạm Duy Hữu, Ngô Xuân Quảng và Mai Đình Lộc, <i>Giáo trình Vật liệu xây dựng</i>, NXB Giao Thông Vận Tải

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) and Program Learning Outcomes (PLO) is shown in the following table:

	<i>PLO</i>									
<i>CLO</i>	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	x									
2	x									
3			x							
4			x							

Program Learning Outcome:

- An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning and assessment activities

Week	Topic	CLO	Assessments activities	Learning activities	Resources
1	Introduction to construction materials	1	Attendance Q&A	Reading materials before class; Doing the lecture; Discussion;	[1] [4]
1-2	Chapter 1: Basic properties of construction materials - Physical properties - Mechanical properties	2,4	Attendance Q&A Homework	Reading materials before class; Doing the lecture; Discussion; Quiz	[1] [4]
3	Chapter 2: Natural rock - Classification of natural rocks - Application of natural rocks as construction materials	1	Attendance Q&A	Reading materials before class; Quiz Doing the lecture; Discussion;	[1] [2]
4-5	Chapter 3: Ceramics - Definition and classification of ceramics - Raw materials used to manufacture ceramics - Properties of ceramics - Sustainable aspect	1,2	Attendance Q&A	Reading materials before class; Doing the lecture; Discussion; Quiz	[1] [2]
6-8	Chapter 4: Portland cement - Classification of binders - Binders hardening in air - Binders hardening in water - Raw materials used to manufacture Portland cement - Properties of Portland cement - Durability of hardened cement exposed to aggressive media - Midterm exam	2,4	Attendance Q&A Homework Midterm exam	Reading materials before class; Doing the lecture; Discussion; Quiz Test	[1] [4]
9-12	Chapter 5: Concrete - Classification and application of concrete - Concrete ingredients - Properties of fresh concrete - Properties of hardened concrete - Durability of concrete exposed to aggressive media - Special concretes - Asphalt concrete	2,4	Attendance Q&A Homework	Reading materials before class; Doing the lecture; Discussion; Quiz	[1] [4]
13	Chapter 6 Steel structures - Introduction steel for construction	3,4	Attendance Q&A Homework	Reading materials before class; Doing the lecture; Discussion; Quiz	[1]

	- Ingredients of steel for construction (Carbon, SiO₂, Fe, ...) - Heat treatment of steel - Steel productions: Cast iron, Alloy, normal steel and prestressed steel - Properties and geometry of steel (Grade and standards: shape, diameter, yield strength, ultimate strength, Elastic Modulus, ...)				
14-15	Chapter 7: Other construction materials Sustainable materials	3,4	Attendance Q&A	Reading materials before class; Doing the lecture; Presentation	[1] [4]
	Final examination		Writing		

4. Assessment plan

- The type of assessment is grading based on exam questions. The range of scores is from 0 to 100.
- The final GPA of students is integrated from 3 components, including: progress assessment, mid-term exam and final exam. The contribution of each component (in percentage) is shown in the table below.

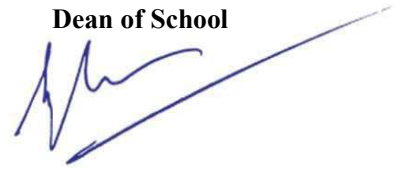
No	Assessment Type (% contribute to GPA)	CLO1	CLO2	CLO3	CLO4	CLO5	CLO6
1	Progress assessment (PA, 30%)						
1.1	Class attendance (50% of PA)						Attended 80%Pass
1.2	In-class activity: Discussion and doing Quizzes in class (25% of PA)						Participated In-class Q&A 60%Pass
1.3	Homework (25% of PA)					HW1-6, Submitted 80%Pass	
2	Midterm exam (Mid, 30%)	Q1, 50%Pass	Q1,2,4 50%Pass	Q2, 50%Pass	Q3 50%Pass	Q4 50%Pass	Q1,2,3,4 50%Pass
3	Final exam (Fin, 40%)	Q1 50%Pass	Q1,2,3 50%Pass	Q2,3 50%Pass	Q4, 50%Pass	Q4 50%Pass	Q1,2,3,4 70%Pass

Note: %Pass: Target that % of students having scores greater than 50% out of question score

5. Date revised: May 20, 2025

Ho Chi Minh City, May 30, 2025

Dean of School

A handwritten signature in blue ink, consisting of stylized, flowing characters that appear to be 'H' and 'N'.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Computer Aided Design and Drafting

Course Code: **CE103IU**

1. General information

Course name	- (in English) <i>Computer Aided Design and Drafting</i> - (in Vietnamese) <i>Vẽ Kỹ Thuật</i>
Course designation	This course introduces to the students a comprehensive overview of construction drawings basics. The course explains the use of lines, dimensions, specifications, symbols and standards, terminology and manufacturing process notes contained on a CAD drawing. The course also offers and expands into broader topics such as different construction drawing types and how blueprints and construction drawings are used to implement the construction process.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐ ☐
Semester(s) in which the course is taught	3, 4
Person responsible for the course	Pham Thanh Tung, Ph.D.
Language	English
Relation to curriculum	☒ Compulsory Elective ☐
Teaching methods	Lecture, practice, group assignments/home works, seminar

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 75 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45 Private study including examination preparation, specified in hours ¹ : 30	
Credit points	3 credits (Theory: 3 + Practice: 0) ECTS (<i>optional</i>)	
Number of periods	Theory: 15 Practice: 0	
Required and recommended prerequisites for joining the course	- Prerequisites: - Corequisites: CE104IU - ComputerAided Design and Drafting Practice - Previous course:	
Course objectives	Students are able to prepare and read construction drawings; are equipped with up to date information to reflect the most recent developments in the construction industry, and to be able to interpret and deal with the technical information found in blueprint documents.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Recognize legal documents related to civil drawings. CLO2. Present and illustrate professional 2D drawings. CLO3. Describe and interpret blueprints, sections, elevations, site plans, architectural and structural plans, and more.
	Skill	CLO4. Present skills in teamwork, communication, presentation, and drawing skills
	Attitude	CLO5. Perform working activities in independently, actively and seriously

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (3 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Introduction to graphics communications	1	I
	Orthographic Projection	2	T,U
	Dimensioning	2	T,U
	Sectioning	2	T,U
	Blueprints and Construction Drawings	3.5	T,U
	The meaning of symbols	0.5	T,U
	Understanding Schedules	0.5	T,U
Examination forms	Written examination: Midterm and Final Exams		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged.		
	Assignments/Examination: Students must have more than 50/100 points overall to pass this course.		
Reading list	<u>Textbooks:</u>		
	[1] Kirstie Plantenberg, Engineering Graphic Essentials, SDC Publications, Fourth Edition.		
	[2] Sam A. A. Kubba, Blueprint Reading: Construction Drawings for the Building Trades, Mc Graw-Hill Higher Education, 2009		
	[3] Gary R Bertoline, Introduction to Graphics Communication for Engineers, Mc Graw-Hill Higher Education, Fourth Edition.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) and Program/Student Learning Outcomes (PLO) is shown in the following table:

	<i>PLO</i>									
<i>CLO</i>	a	b	c	d	e	f	g	h	i	j
1	x									
2			x							
3			x							
4							x			

5							x			

**Use Bloom's Taxonomy*

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to graphics communications: Introduction; Traditional Drawing Tools; Computer Aided Drawing Tools	1		Lecture, Discussion,	[1] [3]
2-3	Orthographic Projection	1,2	Quiz 1 HW1	Lecture, Discussion, In-class Quiz	[1] [3]
4-5	Dimensioning	1,2	Quiz 2 HW2	Lecture, Discussion, In-class Quiz	[1] [3]
6-7	Sectioning	1,2	Quiz 3 HW3	Lecture, Discussion, In-class Quiz	[1] [3]
8	Group presentation and Review for exam MIDTERM EXAM	2,4,5	Group report 1 EXAM	Presentation & discussion EXAM	
9-12	Blueprints and Construction Drawings The meaning of symbols	1, 3	Quiz 4 HW4	Lecture, Discussion, In-class Quiz	[2]
13	Understanding Schedules Interpreting Specifications	1,3	Quiz 5 HW5	Lecture, Discussion, In-class Quiz	[2]
14	Introduction to sustainable/green buildings	1,3	HW6	Lecture, Discussion In-class Quiz	[2]
15	Group presentation and Review for exam	2,4,5	Group report 2	Presentation & discussion	
16-17	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	CLO5
Class participation/In-class activities/quizzes (15%)	Qz(1-6) 60%Pass	Qz(1-3) 60%Pass	Qz(4-6) 60%Pass		
Homework exercises (10%)		HW(1-3) 60%Pass	HW(4-6) 60%Pass		HW(1-6) 60%Pass
Group report and presentation (5%)		Group report 60% pass	Group report 60% pass	Class presentation 60% pass	
Midterm exam (30%)	Q1-4 60%Pass	Q1-4 60%Pass			
Final exam (40%)	Q1-4 60%Pass		Q1-4 60%Pass		

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics

- None

6. Date revised: 02/06/2025

7. Course coordinator/Lecturer

- School/Department: School of Civil Engineering and Management
- Email: pttung@hcmiu.edu.vn

Ho Chi Minh City, 02/06/2025

**DEAN OF SCHOOL OF CIVIL
ENGINEERING AND MANAGEMENT**

(Signature)



Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
 School of Civil Engineering and Management

COURSE SYLLABUS
Course Name: Practice CADD
 Course Code: CE104IU

1. General information

Course name	- <i>(in English) Practice CADD</i> - <i>(in Vietnamese) Thực hành vẽ kỹ thuật</i>
Course designation	The course provides to students the common skills to draw objects in 2D plane from Auto CAD software
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐ ☐
Semester(s) in which the course is taught	1, 2
Person responsible for the course	Pham Thanh Tung, Ph.D.
Language	English
Relation to curriculum	☒ Compulsory Elective ☐
Teaching methods	Lecture, lesson, homework, discussion

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 30 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 30 Private study including examination preparation, specified in hours ¹ : 30	
Credit points	1 credits (Theory: 0 + Practice: 1) ECTS (<i>optional</i>)	
Number of periods	Theory: 0 Practice: 15	
Required and recommended prerequisites for joining the course	- Prerequisites: - Corequisites: CE103IU - Computer-Aided Design and Drafting - Previous course	
Course objectives	This course is designed to give junior engineering students practical skills in using drawing commands, modifying commands, dimensioning commands, layer management with color and line style, printing management, and advances in auto lisp.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Be able to use Auto CAD software in 2D
	Skill	CLO2. Draw any objects related to structures in civil engineering. CLO3. Set printing objects with line thickness.
	Attitude	CLO4. Be aware of drawing in the correct scale.

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session Teaching levels: I (Introduce); T (Teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Drawing commands and practice</td><td>1</td><td>I, T, U</td></tr><tr><td>Modifying commands and practice</td><td>1</td><td>I, T, U</td></tr><tr><td>Dimensioning commands and practice</td><td>1</td><td>I, T, U</td></tr><tr><td>Layer management with color and line style and practice</td><td>1</td><td>I, T, U</td></tr><tr><td>Printing management and practice</td><td>1</td><td>I, T, U</td></tr><tr><td>Advance in drawing with Auto lisp and practice</td><td>1</td><td>I, T, U</td></tr><tr><td>Practice drawing steel structures</td><td>1</td><td>I, T, U</td></tr><tr><td>Practice drawing reinforced concrete structures</td><td>1</td><td>I, T, U</td></tr></table>			Topic	Weight	Level	Drawing commands and practice	1	I, T, U	Modifying commands and practice	1	I, T, U	Dimensioning commands and practice	1	I, T, U	Layer management with color and line style and practice	1	I, T, U	Printing management and practice	1	I, T, U	Advance in drawing with Auto lisp and practice	1	I, T, U	Practice drawing steel structures	1	I, T, U	Practice drawing reinforced concrete structures	1	I, T, U
Topic	Weight	Level																												
Drawing commands and practice	1	I, T, U																												
Modifying commands and practice	1	I, T, U																												
Dimensioning commands and practice	1	I, T, U																												
Layer management with color and line style and practice	1	I, T, U																												
Printing management and practice	1	I, T, U																												
Advance in drawing with Auto lisp and practice	1	I, T, U																												
Practice drawing steel structures	1	I, T, U																												
Practice drawing reinforced concrete structures	1	I, T, U																												
Examination forms	Written examination: Drawing some objects on AutoCAD software																													
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have GPA of more than 50/100 points overall to pass this course.																													
Reading list	<u>Textbooks:</u> [1] Help from AutoCAD software. <u>Additional references:</u> [3] IStructE/Concrete Society, Standard-Method-of-Concrete-Detailing, 3rd Edition, 2006.																													

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) and Program/Student Learning Outcomes (PLO) is shown in the following table:

	<i>PLO</i>									
<i>CLO</i>	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1						x				
2						x				
3						x	x			
4						x	x			

**Use Bloom's Taxonomy*

3. Planned learning activities and teaching methods

Week	Topic	CL O	Assessments activities	Learning activities	Resource s
1-2	Drawing commands and practice	1, 4	Attendance and practice Q&A, Homework 1	Doing the lecture Practicing drawing some objects in the class	[1] [2]
3-4	Modifying commands and practice	1, 4	Attendance and practice Q&A, Homework 2	Doing the lecture Practicing drawing some objects in the class	[1] [2]
5-6	Dimensioning commands and practice	2, 4	Attendance and practice Q&A, Homework 3	Doing the lecture Practicing drawing some objects in the class	[1] [2]
7-8	Layer management with color and line style and practice	2, 4	Attendance and practice Q&A, Homework 4	Doing the lecture Practicing drawing some objects in the class	[1] [2]
9-11	Printing management and practice	3, 4	Attendance and practice Q&A, Homework 5	Doing the lecture Practicing drawing some objects in the class	[1] [2]
12-3	Advance in drawing with Auto lisp and practice	3, 4	Attendance and practice Q&A, Homework 6	Doing the lecture Practicing drawing some objects in the class	[1] [2]
14	Practice drawing steel structures	3, 4	Attendance and practice Q&A, Homework 7	Doing the lecture Practicing drawing some objects in the class	[1] [2]
15	Practice drawing reinforced concrete structures	3, 4	Attendance and practice Q&A,	Doing the lecture Practicing drawing some objects in the class	[1] [2]
16-17	FINAL EXAM		EXAM		

4. Assessment plan

No	Assessment Type (% contribute to GPA)	CLO1	CLO2	CLO3	CLO4
1	Progress assessment (PA, 70%)				
1.1	Class attendance and practice in class (50% of PA)				Attended 60%Pass
1.2	Homework (50% of PA)	HW1-5, Submitted 60%Pass	HW1-5, Submitted 60%Pass	HW1-5, Submitted 60%Pass	HW1-5, Submitted 60%Pass
2	Final exam (Fin, 30%)	Exam 60%Pass	Exam 60%Pass	Exam 60%Pass	Exam 60%Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics

- None

6. Date revised: 02/06/2025

7. Course coordinator/Lecturer

- School/Department: School of Civil Engineering and Management
- Email: pttung@hcmiu.edu.vn

Ho Chi Minh City, 02/06/2025

**DEAN OF SCHOOL OF CIVIL
ENGINEERING AND MANAGEMENT
(Signature)**

Nguyen Hoai Nghia



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: SOIL MECHANICS AND FOUNDATION

Course Code: CE106IU

1. General Information

Course name	- <i>SOIL MECHANICS AND FOUNDATION</i> - <i>CƠ HỌC ĐẤT VÀ NỀN MÓNG</i>
Course designation	CE106IU – SOIL MECHANICS AND FOUNDATION The course provides to students some properties of soil, soil mechanics, lateral earth pressure acting on structures, slope stability, bearing capacity of soil and settlement of structures above soil mechanics those are commonly used in civil engineering construction. The course also provides the fundamental concepts of foundation analysis and design to construction management engineering students.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> ☐ <i>Others:</i>
Semester(s) in which the module is taught	3
Person responsible for the course	Dr. Nguyen, Ba Quang Vinh
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45

	Private study including examination preparation, specified in hours ¹ : 90		
Credit points	3 credits/4.64 ECTS		
Number of periods	Theory: 45 Practice: 0		
Required and recommended prerequisites for joining the course	CE105IU (Engineering Mechanics and Mechanics of Materials)		
Course objectives	Overall objectives Upon successful completion of the course, the students are expected to understand basic definitions, physical and mechanics properties of various soils in different states such as dry, wet and saturated states; to determine the properties of soils and the effect of ground water on properties of soil are also guided in the course; to calculate the stresses acting on soil at any point beneath the ground caused by upper soil layers and structures constructed on the ground are mentioned. The students also understand the fundamental concepts of foundation analysis and design.		
Course learning outcomes	Upon the successful completion of this course students will be able to:		
	Competency level	Course learning outcome (CLO)	
	Knowledge	CLO1: Understand basic definitions and determine physical and mechanical properties of various soils in different states. CLO3: Understand the fundamental concepts of foundation analysis and design.	
	Skill	CLO2: Determine stresses at any point beneath ground caused by above soil layer and constructed structures, including ultimate shear strength of soil and earth pressure acting on walls and foundation.	
	Attitude		
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (3 hours)		
	Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Soil formation Physical properties	1	T, U
Plasticity and structure of soil	1	T, U	

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Classification of soil Soil compaction	1	T, U
	Permeability	1	T, U
	Stress in a Mass soil	1	T, U
	Compressibility of soil	1	T, U
	Shear strength of soil	1	T, U
	Slope stability	1	T, U
	Shallow Foundations	4	T, U
	Pile Foundations	2	T, U
	Reviews	1	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Braja M. Das, <i>Principles of Geotechnical Engineering</i>, 7th Edition, CL - Engineering, 2005. [2] Braja M. Das, <i>Principles of Foundation Engineering</i>, 7th, edition, Cengage Learning, 2011. Class Handout. References: [1] Joseph E. Bowles, <i>Foundation Analysis and Design</i>, 5th Edition, McGraw-Hill, Inc., , 2001. [2] Braja M. Das, <i>Introduction to Geotechnical Engineering</i>, 1st Edition, CL - Engineering, 2008. [3] Châu Ngọc Ân, <i>Cơ học đất</i>, 5th Edition, Ho Chi Minh City Vietnam National University, 2012.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: Understand basic definitions and determine physical and mechanical properties of various soils in different states.
- (2) CLO2: Determine stresses at any point beneath ground caused by above soil layer and constructed structures, including ultimate shear strength of soil and earth pressure acting on walls and foundation.
- (3) CLO2: Understand the fundamental concepts of foundation analysis and design.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1	x									
CLO2			x							
CLO3	x									

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Soil formation Physical properties	L.O.1	Exercise 1	Lecture Class discussion	[1] Chapter 1, 3
2	Plasticity and structure of soil	L.O.1	Exercise 2	Lecture Class discussion	[1] Chapter 4
3	Classification of soil Soil compaction	L.O.1	Exercise 3	Lecture Class discussion	[1] Chapter 5, 6
4	Permeability	L.O.1	Exercise 4	Lecture Class discussion	[1] Chapter 7
5	Stress in a Mass soil	L.O.1, L.O.2	Exercise 5	Lecture Class discussion	[1] Chapter 10
6	Compressibility of soil	L.O.1, L.O.2	Exercise 6	Lecture Class discussion	[1] Chapter 11
7	Shear strength of soil	L.O.1, L.O.2	Exercise 7	Lecture Class discussion	[1] Chapter 12
8	Slope stability Midterm Exam	L.O.1	Exercise 8 Midterm Exam	Lecture Class discussion Test	[1] Chapter 15
9	Shallow Foundations: Ultimate Bearing Capacity	L.O.3	Exercise 11		[2] Chapter 3
10	Shallow Foundations: Allowable Bearing Capacity and Settlement	L.O.3	Exercise 12	Lecture Class discussion	[2] Chapter 4
11	Object-oriented programming in calculating the bearing capacity of shallow foundations	L.O.3	Assignment	Lecture Class discussion	[2] Chapter 3, 4
12	Combined Footings and Mat Foundations	L.O.3	Exercise 13	Lecture Class discussion	[2] Chapter 6
13-14	Pile Foundations	L.O.3	Exercise 14-16	Lecture Class discussion	[2] Chapter 11
15	Reviews	L.O.3	Exercise 17	Lecture Class discussion	
16-17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
Homework exercises/ Presentation (30%)	Ex1-Ex6 50% Pass	Ex7-Ex8 50%Pass	Ex11-Ex17 50%Pass

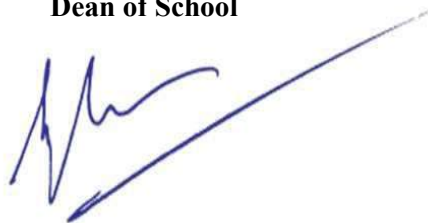
Midterm exam (30%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: June 02, 2025

Ho Chi Minh City, June 02 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Structural Analysis 1

Course Code: CE209IU

1. General information

Course name	- (in English) <i>Structural Analysis 1</i> - (in Vietnamese) <i>Cơ học Kết cấu 1</i>
Course designation	<i>Define the types of structures, supports and loads. Idealization of structures and loads. Geometric stability and determinacy. Analysis of determinate trusses, frames; internal force diagrams. Displacement calculation by integration, virtual work methods, and graph multiplication method. Force method, displacement method.</i>
Course type	☐ General knowledge <i>Fundamental</i> ☐ ☒ Specialized knowledge <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the course is taught	4
Person responsible for the course	Prof. Le Van Canh
Language	English
Relation to curriculum	☒ Compulsory Elective ☐

Teaching methods	Lecture, discussion, and assignments; Regarding the twinning program, the teaching methods and learning activities can be project-based methods or/and in-class activities.	
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 hrs Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 28.5 hrs + 9 hrs Private study including examination preparation, specified in hours ¹ : 90 hrs	
Credit points	3 credits (Theory: 3 + Practice: 0) 4.64 ECTS (<i>optional</i>)	
Number of periods	Theory: 45 Practice: 0	
Required and recommended prerequisites for joining the course	- Prerequisites: (Course code – Course name): None - Corequisites: (Course code – Course name): None - Previous course (Course code – Course name): CE105IU - Engineering Mechanics and Mechanics of Materials	
Course objectives	This course introduces computational analysis of structures and the practice of solving structural problems. Understand basic structural engineering concepts. Determine magnitude of different types of loads in accordance to the related codes. Idealization of structures and loads in relation with real structures. Determine the internal forces and draw diagrams for beams, frames and trusses.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. An understanding of basic structural engineering concepts. CLO2. An understanding of methods for computing displacements and slopes for beams and frames using double integration, virtual work methods, and graph multiplication methods.
	Skill	CLO3. An ability to determine the internal forces and draw diagrams for determinate structure. CLO4. An ability to determine the internal forces and draw diagrams for indeterminate structure.
	Attitude	

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (2 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Classification of structures</td><td>1</td><td>I</td></tr><tr><td>Shear diagram</td><td>1</td><td>T, U</td></tr><tr><td>Moment diagram</td><td>1</td><td>T, U</td></tr><tr><td>Deflections</td><td>1</td><td>T, U</td></tr><tr><td>Slopes</td><td>1</td><td>T, U</td></tr><tr><td>Force method</td><td>1</td><td>T, U</td></tr><tr><td>Displacement method</td><td>1</td><td>T, U</td></tr></table>	Topic	Weight	Level	Classification of structures	1	I	Shear diagram	1	T, U	Moment diagram	1	T, U	Deflections	1	T, U	Slopes	1	T, U	Force method	1	T, U	Displacement method	1	T, U
Topic	Weight	Level																							
Classification of structures	1	I																							
Shear diagram	1	T, U																							
Moment diagram	1	T, U																							
Deflections	1	T, U																							
Slopes	1	T, U																							
Force method	1	T, U																							
Displacement method	1	T, U																							
Examination forms	Constructed-response test																								
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.																								
Reading list	<i>Textbooks:</i> <i>[1] R. C. Hibbeler, Structural Analysis, Prentice-Hall.</i> <i>References:</i> <i>[2] Jacob Fish, Teb Belytschko, A First Course in Finite Elements, Willey, 2007.</i> <i>[3] T.H.G. Megson, Structural and stress analysis, Elsevier, 2005.</i>																								

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) and Program/Student Learning Outcomes (PLO) is shown in the following table:

CLO	ILO										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	x	x									x
2	x	x									x
3		x								x	x
4		x								x	x

**Use Bloom's Taxonomy*

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Classification of structures; loads; structural design	1, 3	Quiz 1	Lecture, Discussion	[1] Chapter 1

	Idealization of structures and loads.				
2	Geometric stability and determinacy	1, 3	Quiz 1	Lecture, Discussion	[1] Chapter 1
3-4	Shear and moment diagrams in frames	1, 3	Quiz 1	Lecture, Discussion	[1] Chapter 3,4
5-8	Deflection and slopes: integration, virtual work method, graph multiplication Midterm Exam	1, 3	Quiz 1 Midterm exam	Lecture, Discussion, Test	[1] Chapter 8
9-11	Force method	2, 4	Quiz 2	Lecture, Discussion	[1] Chapter 10
13-15	Displacement method	2, 4	Quiz 2	Lecture, Quiz	[1] Chapter 11
16-17	Final exam				

4. Assessment plan

- The type of assessment is grading based on exam questions. The range of scores is from 0 to 100.
- The final GPA of students is integrated from 2 components, including progress assessment and final presentation. The contribution of each component (in percentage) is shown in the table below.

Assessment Type	CLO1	CLO2	CLO3	CLO4
In-class exercises/quizzes/attendance (20%)	Quiz 1 60%Pass	Quiz 2 60%Pass	Quiz 1 60%Pass	Quiz 2 60%Pass
Midterm exam (30%)	Q1 50%Pass		Q2 50%Pass	
Final exam (50%)		Q1 50%Pass		Q2 50%Pass

Note: %Pass: Target that % of students having scores greater than 50% out of question score

5. Rubrics: None

6. Date revised: May 24, 2025

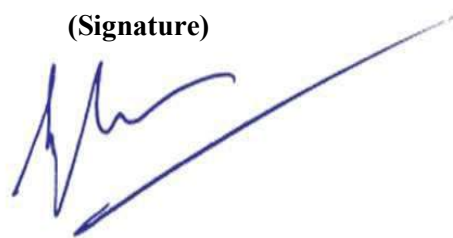
7. Course coordinator/Lecturer

- School of Civil Engineering and Management
- Email: lvcanh@hcmiu.edu.vn

Ho Chi Minh, 24/05/2025

**DEAN OF SCHOOL OF
CIVIL ENGINEERING AND MANAGEMENT**

(Signature)

A handwritten signature in blue ink, consisting of stylized, overlapping loops and a long, sweeping diagonal stroke extending towards the upper right.

Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Reinforced Concrete 1

Course Code: **CE304IU**

1. General information

Course name	- <i>(in English) Reinforced concrete 1</i> - <i>(in Vietnamese) Bê tông cốt thép 1</i>
Module designation	CE304IU – Reinforced Concrete 1 Basic design concepts: basic layout of concrete structures, loading; Basic material properties: concrete and reinforcing steel; Analysis of structures: limit state design, simplification of framed structures, moment redistribution; Analysis and design of flexural members; Shear; Bond and anchorage; Serviceability; One-way and two-way slabs; Compression members; Foundation: footings. Current building code and standards are referred to extensively in this course. General concepts of oriented-programming toward designing Rc structures
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	5
Person responsible for the module	Assoc. Prof. Cao Thanh Ngoc Tran
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90																	
Credit points	3 credits (Theory: 3 + Practice: 0) 4.64 ECTS (<i>optional</i>)																	
Number of periods	Theory: 45 Practice: 0																	
Required and recommended prerequisites for joining the module	Structural analysis – CE209IU																	
Module objectives/intended learning outcomes	Overall objectives are to equip CE students with knowledge about reinforced concrete structures Students who complete the course will be able to perform the following tasks: (1) Identify and calculate loadings to reinforced concrete structures. (2) Design reinforced concrete structures under ultimate and serviceability limit states. (3) Design and analyze the reinforced concrete members: beam, column, one-way and two-way slabs, footings.																	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction to reinforced concrete design</td><td>1</td><td>I</td></tr><tr><td>Design of singly-reinforced rectangular beams</td><td>2</td><td>T, U</td></tr><tr><td>Design of doubly-reinforced rectangular beams</td><td>2</td><td>T, U</td></tr><tr><td>Moment redistribution</td><td>1</td><td>T, U</td></tr></table>			Topic	Weight	Level	Introduction to reinforced concrete design	1	I	Design of singly-reinforced rectangular beams	2	T, U	Design of doubly-reinforced rectangular beams	2	T, U	Moment redistribution	1	T, U
Topic	Weight	Level																
Introduction to reinforced concrete design	1	I																
Design of singly-reinforced rectangular beams	2	T, U																
Design of doubly-reinforced rectangular beams	2	T, U																
Moment redistribution	1	T, U																

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Design for shear	1	T, U
	Bond of reinforcement	1	T, U
	Slabs	2	T, U
	Columns	2	T, U
	Footings	3	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Text book: [1] Mosley, W.H., Hulse, R. and Bungey, J.H., <i>"Reinforced Concrete Design to EuroCode 2"</i> , 6th edition, Macmillan, London, 2007 [2] Eurocode 2: Design of Concrete Structures – Part 1-1: General rules and rules for buildings		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Identify and calculate loadings to reinforced concrete structures.
- (2) CLO2: Design reinforced concrete structures under ultimate and serviceability limit states.
- (3) CLO3: Design and analyze the reinforced concrete members: beam, column, one-way and two-way slabs, footings.

Course Learning Outcome	Program Intended Learning Outcome (ILO)										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
CLO1	x	x									x
CLO2		x								x	x
CLO3		x								x	x

Program Learning Outcome:

- (a) Understanding the physical world and using knowledge of mathematics along with natural science to represent and pursue research and establish and interpret empirical data sets by the use of quantitative and quantitative methods
- (b) Understanding of fundamentals of civil engineering field (e.g., construction geology, material

science, construction physics, surveying, structural theory, technical design, construction informatics, soil mechanics, fluid mechanics, and computational techniques, analyzing data for design, build, and appraisal construction), and ability to utilize both classical and modern research methods to identify, interpret and integrate technical literature and database

- (c) Ability to analyze and prepare investment projects and understand the economic, environmental, and social impact of engineering solutions
- (d) Awareness of professional and ethical responsibilities of a civil engineer
- (e) Ability to function as a member of a multidisciplinary team (including international and mixed gender members) as well as having good knowledge of management and organization to perform projects to grow into an appropriate and responsible leadership role
- (f) Recognition of the need for and ability to engage in life-long learning in order to work efficiently in situations in which new technologies appear regularly
- (g) Ability to communicate on content and problems of civil engineering with both professional colleagues and individuals of a wider public in foreign languages and intercultural relations efficiently, including oral, written, and others
- (h) A broad education is necessary to understand the impact of engineering solutions in a global and social context, taking into account sustainability, environmental, ecological, and economic aspects
- (i) Understanding of contemporary issues of national, regional, and the world with a broad vision
- (j) Ability to use techniques, skills, and modern engineering tools necessary for engineering practice, including identifying tasks of civil engineering, analyzing, abstracting, and formulating, along with being able to develop concepts, plans, and methods for proof and forecast (e.g., documented evidence for stability, energy efficiency, noise protection, flood protection, water supply)
- (k) Ability to use English in both technical and day-life situations.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to reinforced concrete design Properties of constituent materials Load combinations	1	Quiz 1	Lecture, Discussion	[1] Chapter 1,2,3
2, 3	Design of singly-reinforced rectangular beams	2	Quiz 1	Lecture, Discussion	[1] Chapter 4
4,5	Design of doubly-reinforced rectangular beams	2	Quiz 1	Lecture, Discussion	[1] Chapter 4
6	Moment redistribution	2	Quiz 1	Lecture, Discussion	[1] Chapter 3

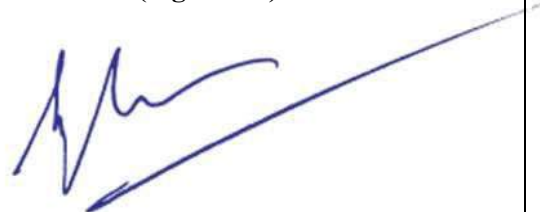
7	Design for shear	2	Quiz 1	Lecture, Discussion	[1] Chapter 5
8-9- 10	Bond of reinforcement. Curtailement of reinforcement Serviceability requirements in RC design. Quiz 1, Midterm exam	2	Quiz 1, Midterm exam	Lecture, Quiz 1, Test	[1] Chapter 5
11-12	One-way spanning slabs Two-way spanning slabs	3	Quiz 2	Lecture, Discussion	[1] Chapter 8
13, 14	Columns – behavior and classification, Moments and forces in columns, Axially loaded columns, Columns resisting uniaxial bending and biaxial bending, Construction of column interaction diagrams	3	Quiz 2	Lecture, Discussion	[1] Chapter 9
15, 16, 17	Footings – general considerations Design of axially loaded pad footing Eccentrically loaded pad footing Design of combined footing, Quiz 2	3	Quiz 2	Lecture, Discussion	[1] Chapter 10
18-19	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes/ attendance (30%)	Quiz 1 60%Pass		Quiz 2 60%Pass
Midterm exam (20%)		50%Pass	
Final exam (50%)			50%Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 24, 2025

	Ho Chi Minh City, May 24, 2025 Dean of School of Civil Engineering and Management (Signature)  Dr. Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: STEEL STRUCTURES

Course Code: **CE305IU**

1. General information

Course name	- <i>Steel Structures</i> - <i>Kết cấu thép</i>
Course designation	<i>Introduction to students the basic principles of reading steel structural plans, elevations and sectional views, distribute loadings on structures based on architecture plans, determine factored loads for design, design structural steel beams and columns, and design bolted and welded connections.</i>
Course type	☐ <i>General knowledge</i> ☐ <i>Fundamental</i> ☒ <i>Specialized knowledge</i> ☐ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i>
Semester(s) in which the course is taught	5 TH
Person responsible for the course	<i>Phạm Nhân Hòa (Msc)</i>
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, discussion, and assignments

Workload (incl. contact hours, self- study hours)	Total workload: 127.5 (Estimated) Contact hours: - lecture: 28.5 - Discussion: 9 Private study including examination preparation, specified in hours: 90	
Credit points	3 credits (Theory: 3Cr + Practice: 0)/4.64 ECTS	
Number of periods	Theory: 45 Practice: 0	
Required and recommende d prerequisites for joining the course	Previous course: CE209IU - Structural Analysis 1	
Parallel course	None	
Course objectives	The aim of this course is - to develop an understanding of Limit State Design as applied to structural steel beams based on the latest Euro Code 3 – Design of steel structures. - to develop an understanding of Limit State Design as applied to structural steel columns and connections based on the latest Euro Code 3 – Design of steel structures.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Categorie s	Course learning outcome (CLO)/ Competency
	Knowledg e	CLO1: Analyzing, interpreting, and designing steel structures based on National Codes. CLO2: Analyzing, interpreting, and designing joints of steel structures based on National Codes.
	Skills	
	Attitude	CLO3: Work independently and professionally

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Introduction, material properties, limit state design, loading, and section classifications.	1	I,T,U
	Tension members	1	I,T,U
	Compression members: Its Behaviors, local and overall buckling, column slenderness and effective length concept.	1	I,T,U
	Local buckling of thin-plate elements	1	I,T,U
	In-plane bending of beams	1	I,T,U
	Lateral buckling of beams	1	I,T,U
	Beam-columns	1	I,T,U
	Introduction to moment connections of bolted end plate connections, beam and column splices.	1	I,T,U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have GPA more than 50/100 points overall to pass this course.		
Reading list and Media employed	<u>Textbooks:</u> [1] Trahair, NS.; Bradford MA.; Nethercot DA. and Gardner, L. “The Behavior Design of Steel Structures to EC 3”, 4th Edition, Taylor and Francis, 2007. [2] Eurocode 3 (BS EN 1993-1-1:2005) Part 1-1: Design of Steel Structures – General Rules and Rules for Buildings, British Standards Institution, London, UK. [3] Eurocode 3 (BS EN 1993-1-1:2005) Part 1-5: Design of steel structures – Plated Structural Elements, British Standards Institution, London, UK. [4] Eurocode 3 (BS EN 1993-1-1:2005) Part 1-8: Design of Steel Structures – Design of Joints, British Standards Institution, London, UK. <u>Additional references:</u> [5] Gardner, L. and Nethercot, D.A., “Designer’s Guide to Eurocode 3: Design of Steel Structures”, 3 rd Edition, Thomas Telford, 2009.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) and Program Intended Learning Outcomes (ILO) is shown in the following table:

	<i>ILO</i>

<i>CLO</i>	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	x	x									
2	x	x									
3						x					

3. Planned learning and assessment activities

Week	Topic	CLO	Assessments activities	Learning activities	Resources
1	Introduction, material properties, limit state design, loading, and section classifications.	1,2,3	Attendance Q&A	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 1
2	Tension members	1,2,3	Attendance Q&A Homework 1	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 2
3-4	Compression members: Its Behaviors, local and overall buckling, column slenderness and effective length concept.	1,2,3	Attendance Q&A Homework 2	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 3
5-8	Local buckling of thin-plate elements Midterm Examination	1,2,3	Attendance Q&A Homework 3 Quizz 1 Midterm Examination	Reading materials before class; Doing the lecture; Discussion; Test	[1] Chapter 4
9	In-plane bending of beams	1,2,3	Attendance Q&A Homework 4	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 5
10-11	Lateral buckling of beams	1,2,3	Attendance Q&A Homework 5	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 6

12-13	Beam-columns	1,2,3	Attendance Q&A Homework 6	Reading materials before class;	[1] Chapter 7
14-15	Introduction to moment connections of bolted end plate connections, beam and column splices.	1,2,3	Attendance Q&A Quizz 2	Doing the lecture; Discussion;	[1] Chapter 9
16-17	FINAL EXAMINATION		WRITING		

4. Assessment plan

- The type of assessment is grading based on exam questions. The range of scores is from 0 to 100.
- The final GPA of students is integrated from 3 components, including progress assessment, mid-term exam, and final exam. The contribution of each component (in percentage) is shown in the table below.

No	Assessment Type (% contribute to GPA)	CLO1	CLO2	CLO3
1	Progress Assessment (PA, 30%)			
1.1	Class attendance (25% of PA)			Attended 80%Pass
1.2	In-class activity: Discussion and doing Quizzes in class (25% of PA)	Quizz 1	Quizz 2	Participated in class Q&A 60%Pass
1.3	Homeworks (50% of PA)	HW1-6, Submitted 80%Pass		HW1-6, Submitted 80%Pass
2	Midterm exam (Mid, 20%)	Q1-5, 60%Pass		
3	Final exam (Fin, 50%)	Q1, 60%Pass	Q2, 60%Pass	

Note: %Pass: Target that % of students having scores greater than 50% out of question score

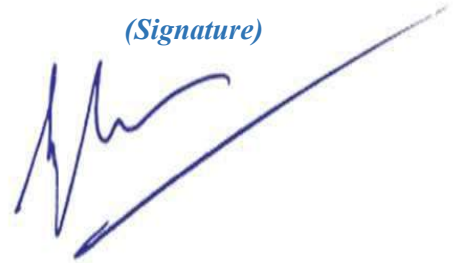
5. Rubrics (optional)

- No

6. Date revised: 20/5/2025

Ho Chi Minh City, 30/5/2025
Dean of School of Civil Engineering and
Management

(Signature)

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PhD. Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Surveying

Course Code: CE307IU

1. General information

Course name	Surveying Trắc địa
Course designation	This course covers the basics of surveying. It includes the principles of measurements of distances, elevations, and angles. The students will become familiar with all surveying instruments as well as learn about the different types of surveying including how they are carried out, the data to collect, and how to analyze, interpret, and process the data. It also includes basic error theory in measurement and calculations, and basic principles of map making.
Course type	☐ General knowledge ☐ Fundamental ☒ Specialized knowledge ☐ Internship/Project/Thesis Others:.....
Semester(s) in which the course is taught	1, 2
Person responsible for the course	Cabaltica Doliente Angeli, <i>MSc.</i>
Language	English
Relation to curriculum	Specialization (compulsory)
Teaching methods	Lecture, class discussion, computation exercises

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 90 Contact hours (lecture, class discussion, computation exercise): 30 Private study including examination preparation, specified in hours ¹ : 60	
Credit points	2 credits (Theory: 02 + Practice: 00) 3.09 ECTS	
Number of periods	Theory: 30 Practice: 00	
Required and recommended prerequisites for joining the course		
Parallel course		
Course objectives	This course aims to: - introduce students to the different techniques of data collection, layout, and presentation of field data; - make students understand all the tasks involved in a various surveying operations in order that they might have the confidence to undertake such tasks in a professional capacity; and - make students understand and perform the calculations and plottings involved in surveying.	
Course learning outcomes	Upon successful completion of this course, students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. discuss the different types of surveys; describe the different surveying tools and instruments used for different types of surveys;
	Skill	CLO2. perform calculations in surveying including distances, elevations, directions, coordinates, and areas; CLO3. read, interpret, as well as prepare maps, plots, reports involved in surveying; and
	Attitude	CLO4. work professionally whether independently or in a team.

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>				
	Weight: lecture session (2 hours)				
	Teaching levels: I (Introduce); T (Teach); U (Utilize)				
	Topic	Weight	Level		
	1. Introduction to Surveying	0.5	I		
	2. Reference Systems	0.5	I, T		
	3. Errors in Measurement	1	I, T, U		
	4. Horizontal Distance Measurement	2	I, T, U		
	5. Levelling	3	I, T, U		
	6. Control Surveys	3	I, T, U		
Examination forms	7. Topographic Surveys				
	8. Setting out				
	9. GPS and GIS				
	Written examinations: Midterm and Final Exams				
	Type: Constructed response test				
	Study and examination requirements	Attendance: Students are expected to attend the lectures every week. University regulations indicate that if students attend less than 80% of scheduled classes they may be refused final assessment.			
		Computation exercises, quizzes (written or oral), and homeworks: are given regularly, whether individually or done by group, for the students to understand the concepts better and to improve their problem-solving skills.			
		Examinations: A midterm exam will be given halfway through the semester and a final exam at the end. Students must have an overall score of at least 50/100 points to pass this course.			
		Reading list	Main Reference		
			[1] Charles D. Ghilani – Paul R. Wolf. , <i>Elementary Surveying – An introduction to Geomatics</i> , 13th, edition, Prentice Hall, 2012.		
Other References					
[2] Lillesand, Kiefer, <i>Remote sensing and image interpretation</i> , John Wiley & Sons,1994.					
[3] Paul A. Longley, Michael F. Goodchild, David J. Mauire, David W. Rhind, <i>Geographic Information Systems and Science</i> , John Wiley & Sons, 2005.					

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) and Program Learning Outcomes (PLO) is shown in the following table:

CLO	PLO									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1						X				X
2			X							
3						X	X			
4									X	

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to Surveying	1, 4	Attendance, Q&A	Lecture, class discussion, self-study	[1]
2	Reference Systems	3, 4	Attendance, Q&A	Lecture, class discussion, self-study	[1]
3	Errors in Measurement	2, 4	Attendance, Q&A, Quiz 1	Lecture, class discussion, self-study	[1]
4-6	Horizontal Distance Measurement	1, 2, 4	Attendance, Q&A, Homework 1	Lecture, class discussion, self-study	[1]
7-8	Differential Levelling & Three-wire levelling Midterm Exam	1, 2, 3, 4	Attendance, Q&A, Homework 2, Midterm Exam	Lecture, class discussion, self-study, Test	[1]

9-10	Trigonometric & Profile Levelling	1, 2, 3, 4	Attendance, Q&A, Quiz 2	Lecture, class discussion, self-study	[1]
11-13	Control Surveys	1, 2, 3, 4	Attendance, Q&A, Homework 3	Lecture, class discussion, self-study	[1]
14-15	Topographic Surveys	1, 2, 3, 4	Attendance, Q&A, Quiz 3	Lecture, class discussion, self-study	[1]
16					
17-18	Final exam				

4. Assessment plan

- The type of assessment is grading based on exam questions. The range of scores is from 0 to 100.
- The final GPA of students is integrated from 3 components, including progress assessment, mid-term exam, and final exam. The contribution of each component (in percentage) is shown in the table below.

No.	Assessment Type	CLO1	CLO2	CLO3	CLO4
1	Progress Assessment (30%)				
1.1	Class Attendance (30% of PA)				Attended 80%Pass
1.2	In-class activities: Participation in discussion, quizzes; Other activities: homeworks, group exercise (70% of PA)		Qz1-3 HW1-3 60%Pass	Qz3-3 60%Pass	
2	Midterm Exam (30%)	P1 60%Pass	P2. Q1-Q4 60%Pass	P2. Q1-Q4 60%Pass	
3	Final Exam (40%)		Q1-4 60%Pass	Q1-4 60%Pass	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Date revised: May 30, 2025

Ho Chi Minh City, May 30, 2025
Dean of School

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: Introduction to Construction Management

Course Code: CM205IU

1. General information

Course name	- (in English): <i>Introduction to Construction Management</i> - (in Vietnamese): <i>Quản lý xây dựng nhập môn</i>
Course designation	This course provides fundamental knowledge of construction management. This course is a compulsory course for students who pursue construction management major at the early stage of their program
Course type	☐ General knowledge ☒ Fundamental ☐ Specialized knowledge Internship/Project/Thesis ☐ Others: ☐ ☐
Semester(s) in which the course is taught	2,3
Person responsible for the course	PhD. Nguyen Van Tiep PhD Nguyen Hoai Nghia PhD Tran Thanh Ha
Language	English

Relation to curriculum	Compulsory	
Teaching methods	Student-centered approach	
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 85 hours Contact hours (lecture): 25 Private study including examination preparation, specified in hours ¹ : 60	
Credit points	02 credits (Theory: 02 + Practice: 00) 3.06 ECTS	
Number of periods	Theory: 30 Practice: 00	
Required and recommended prerequisites for joining the course	N/A	
Course objectives	Upon successful completion of this course, the students are expected to have knowledge of construction management functions including project scheduling techniques; construction cost estimation; construction contract administration; construction equipment management; construction quality and productivity; and construction safety.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. To grasp the construction management functions.
	Skill	CLO2. To understand construction management fields and related techniques including, planning and scheduling techniques, cost estimation and contract administration, procurement and tendering, equipment management, quality and productivity management, and safety
	Attitude	CLO3. Identify fundamental legal requirements in construction and perform the role of a construction management engineer

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	This course is designed to provide students with general knowledge about construction management fundamentals. Students are introduced overview of construction industry, construction management functions, scheduling techniques, construction cost estimation, construction contract administration, construction equipment management, quality and productivity, and construction safety.
Examination forms	Essay exams
Study and examination requirements	- Attend more than 80% of contact hours to be accepted to the final examination - Actively participate in class activities - Fulfill tasks given by instructor after class - Use their own laptop in class only for learning purpose - Read the textbook in advance - Access the course Blackboard for up-to-date information and material of the course, for online supports from
Reading list	Textbooks and References 1. Kraig Knutson, Clifford J. Schexnayder, Christine Fiori, Richard E. Mayo, Construction Management Fundamentals, 2016, 2nd edition. 2. Daniel W. Halpin, Bolivar A. Senior, Construction Management, 2012, 4th edition. References 1. Fisk, E.R. and Reynolds, W.D. (2014). Construction Project Administration, 10th ed. New Jersey: Pearson 2. Thomas, H.R. and Ellis, R.D. Jr. (2017). Construction Site Management and Labor Productivity Improvement, Virginia: ASCE Press.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-3) and Program/Student Learning Outcomes (SLO) (a -j) is shown in the following table:

CLO	Program Learning Outcomes									
	a	b	c	d	e	f	j	h	i	j
1	x									
2		x			x			x		
3									x	

Course learning outcomes

- CLO1. To grasp the construction management functions.

- CLO2. To understand construction management fields and related techniques including, planning and scheduling techniques, cost estimation and contract administration, procurement and tendering, equipment management, quality and productivity management, and safety
- CLO3. Identify fundamental legal requirements in construction and perform the role of a construction management engineer.

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
1	Historical Perspective	CLO1	Lecture Class discussion	Homework
2	Overview of construction industry	CLO1	Lecture Class discussion	Homework
2	Construction management functions	CLO1	Lecture Class discussion	Homework
3	Project scope management	CLO2	Lecture Class discussion	Presentation Quiz
4, 5	Planning and scheduling techniques for construction projects	CLO2	Lecture Class discussion	Presentation Quiz
6, 7	Construction cost estimation and contract administration	CLO2	Lecture Class discussion	Presentation Quiz
8	Construction procurement and tendering MIDTERM EXAM	CLO2	Lecture Class discussion MIDTERM EXAM	Presentation Quiz Written exam
9	Construction equipment management	CLO2	Lecture Class discussion	Presentation
10	Construction Quality and Productivity Management	CLO2	Lecture Class discussion	Homework
11, 12	Project resource and risk management	CLO2	Lecture Class discussion	Homework
13, 14	Safety	CLO2	Lecture Class discussion	Homework
15	Related Vietnamese laws and regulations	CLO2, CLO3	Lecture Class discussion	Homework
FINAL EXAM				Written exam

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
Progress Assessment (40%) ● Attendance ● Presentation ● Quiz	x		x
Midterm exam (20%)	x	x	
Final exam (40%)	x	x	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

Rubrics (optional)

5. Date revised: 20/5/2025

Ho Chi Minh City, May 31, 2025
School of Civil Engineering and Management
(Signature)

A handwritten signature in blue ink, consisting of a stylized 'H' followed by a long horizontal stroke.

Dr. Nguyễn Hoài Nghĩa



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
**School of Civil Engineering and Construction
Management**

COURSE SYLLABUS

Course Name: Construction Management Project

Course Code: CM203IU

1. General information

Course name	- <i>(in English)</i> : Construction Management Project - <i>(in Vietnamese)</i> : Đồ án quản lý xây dựng
Course designation	The course provides students with a detailed guild on how to carry out a research and prepare a construction management project.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>Specialized knowledge</i> ☒ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	4
Person responsible for the module	Dr. Nguyen Van Tiep Dr. Nguyen Hoai Nghia Dr. Tran Thanh Ha
Language	English

Relation to curriculum	Compulsory								
Teaching methods	Lecture, report and defence								
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 35 Contact hours (lecture, exercise, laboratory session, etc.): 10 Private study including examination preparation, specified in hours ¹ : 25								
Credit points	01 credits (Theory: 00 + Practice: 01) 2.45 ECTS								
Number of periods	Theory: 00 Practice: 30								
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM205IU Introduction to Construction Management								
Course objectives	A practice construction project is carried out, including all aspects of construction management. Students are supposed to apply knowledge in the courses of construction management to identify and solve an issue in construction management								
Course learning outcomes	Upon the successful completion of this course students will be able to: <table border="1"> <thead> <tr> <th>Competency level</th><th>Course learning outcome (CLO)</th></tr> </thead> <tbody> <tr> <td>Knowledge</td><td>CLO1: Have an abroad understanding of construction management</td></tr> <tr> <td>Skill</td><td>CLO2. Identify an issue in construction management. CL03. Analyze and solve the issue.</td></tr> <tr> <td>Attitude</td><td>CL04: Be active in planning, executing and presenting the project</td></tr> </tbody> </table>	Competency level	Course learning outcome (CLO)	Knowledge	CLO1: Have an abroad understanding of construction management	Skill	CLO2. Identify an issue in construction management. CL03. Analyze and solve the issue.	Attitude	CL04: Be active in planning, executing and presenting the project
Competency level	Course learning outcome (CLO)								
Knowledge	CLO1: Have an abroad understanding of construction management								
Skill	CLO2. Identify an issue in construction management. CL03. Analyze and solve the issue.								
Attitude	CL04: Be active in planning, executing and presenting the project								

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	The description of the contents should clearly indicate the weighting of the content and the level.			
	Week	Content	Teaching and learning activities	Teaching Level
	1	Project requirements and criteria	Lecture	I
	2, 3	Topic approval	Class discussion	I
	4	Topic introduction	Class discussion	T
	5, 6	Project history presentation	Class discussion	T
	7, 8	Problem identification	Class discussion	T
	9, 10	Project data collection	Class discussion	T,U
	11, 12	Analysis and discussion	Class discussion	T,U
	13, 14	Findings and conclusion	Class discussion	U
	15	Oral exam	Exam	U
Examination forms	Oral Defense			
Study and examination requirements	Exam Requirements			
	Assessment Component	Assessment form	Percentage %	
	A1. Approving project sessions, learning attitude, and report	A1.1 Attendance A1.2 Progress report A1.3 Final report	70%	
	A2. One comprehensive final oral examination	A2.1 Oral exam	30%	
	Class Participation: Student is expected that you will spend at least 4 hours per week on studying this course. This time should be made up of reading, working on exercises and problem, group assignment and attending class lectures and tutorials. University regulations indicate that if students attend less than 80% of scheduled classes they may be refused final assessment. Regular attendance is essential for successful performance and learning in this course, particular in view of the interactive teaching and learning approach adopted. Academic Honesty and Plagiarism: Instances of academic dishonesty			

	will not be tolerated. Cheating on exams or plagiarism (presenting the work of another as your own, or the use of another person's ideas without giving proper credit) will result in a failing grade. For this class, all assignments are to be completed by the individual student unless otherwise specified. Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for preparation, research, drafting, and the proper referencing of sources in preparing all assessment items.
Reading list	Textbooks 1. Kraig Knutson, Clifford J. Schexnayder, Christine Fiori, Richard E. Mayo, Construction Management Fundamentals, 2016, 2nd edition. 2. Daniel W. Halpin, Bolivar A. Senior, Construction Management, 2012, 4th edition. References 1. Fisk, E.R. and Reynolds, W.D. (2014). Construction Project Administration, 10th ed. New Jersey: Pearson 2. Thomas, H.R. and Ellis, R.D. Jr. (2017). Construction Site Management and Labor Productivity Improvement, Virginia: ASCE Press.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (1 -10) is shown in the following table:

CLO	Program Learning Outcomes									
	a	b	c	d	e	f	g	h	i	j
1	x	x								
2					x					
3					x					
4								x		

Course learning outcomes

- CLO1: Have an abroad understanding of construction management.
- CLO2. Identify an issue in construction management.
- CL03. Analyze and solve the issue.
- CL04: Be active in planning, executing and presenting the project

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.

- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
1	Project requirements and criteria	L.O.1	Lecture	Attendance
2, 3	Topic approval	L.O.1	Class discussion	Attendance Presentation
4	Topic introduction	L.O.2	Class discussion	Attendance Presentation
5, 6	Project history presentation	L.O.2	Class discussion	Attendance

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
				Presentation
7, 8	Problem identification	L.O.2	Class discussion	Attendance Presentation
9, 10	Project data collection	L.O.2	Class discussion	Attendance Presentation
11, 12	Analysis and discussion	L.O.2	Class discussion	Attendance Presentation
13, 14	Findings and conclusion	L.O.2	Class discussion	Attendance Presentation
15	Oral exam	L.O.2	Exam	Defense

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
A1. Approving project sessions, learning attitude, and report (70%) • A1.1 Attendance • A1.2 Progress report • A1.3 Final report	50%Pass	50%Pass		50%Pass
A2. One comprehensive final oral examination (30%)	50%Pass	50%Pass		

Note: %Pass: % students have scores greater than 50 out of 100.

5. Rubrics (optional)

6. Date revised: 20/5/2025

Ho Chi Minh City, May 31, 2025

Dean of School CEM

(Signature)

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS
QUANTITATIVE METHODS FOR BUSINESS
BA168IU

1. General information

Course designation	This subject will familiarize quantitative approaches and mathematical optimization techniques used to address managerial and business issues.
Semester(s) in which the course is taught	
Person responsible for the course	Ms. Dang Thi Uyen Thao
Language	English
Relation to curriculum	Compulsory
Teaching methods	Quizzes, Assignments, Computer Assignments, Lectures, Tutorials, Examinations
Workload (incl. contact hours, self-study hours)	
Credit points	3
Required and recommended prerequisites for joining the course	Statistics for Business and Math for Business

Course objectives	This course aims to help students to • Provide students with the methodological understanding of quantitative analysis used in business management. • Create an awareness of quantitative analytical tools used in business management. • Use quantitative analytical tools in business management. • Engage students in critically evaluating the tools of quantitative analysis.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge & Skill	CLO1. Understand and relate quantitative approaches to problems solving and decision making in business management CLO2. Explain various notions/concepts/principles in time series analysis; (build and interpret appropriate forecasting models critically) CLO3. Recognize appropriate techniques to initiate, plan, execute and control projects and meet challenges and deadlines CLO4. Use computer software for quantitative analysis
	Attitude	CLO5. Recognize the benefits as well as the limits of quantitative analysis in business management CLO6. Learn to work as a collaborative team member
Content	Quantitative Business Methods provides students with many quantitative techniques needed to analyze business situations and make decisions. The course covers decision analysis, forecasting, linear programming, project management, queuing theory, EFA, CFA and SEM.	
Examination forms	Open-ended questions	

Study and examination requirements	In order to pass this course, the students must: ● achieve a composite mark of at least 50; and ● make a satisfactory attempt at all assessment tasks (see below). GRADING POLICY Grades can be based on the following: <table border="1"> <tr> <td>Quizzes, Computer assignments</td><td>30%</td></tr> <tr> <td>Midterm examination</td><td>30%</td></tr> <tr> <td>Final examination</td><td>40%</td></tr> <tr> <td>Total</td><td>100%</td></tr> </table> COURSE POLICIES Attendance Regular and punctual attendance at lectures in this course. Exemptions may only be made on a health basis. Workload It is expected that the students will spend at least six hours per week studying this course. This time should be made up of reading, research, working on exercises and problems, and attending classes. In periods where they need to complete assignments or prepare for examinations, the workload may be greater. General Conduct and Behavior Keeping informed The students should take note of all announcements made in lectures or on the course's Blackboard. From time to time The students are expected to conduct themselves with consideration and respect for the needs of the fellow students and teaching staff. Conduct which unduly disrupts or interferes with a class, such as ringing or talking on mobile phones, is not acceptable and students will be asked to leave the class. More information on student conduct is available at www.hcmiu.edu.vn, the university will send important announcements to their university e-mail addresses without providing a paper copy. The students will be deemed to have received this information. Academic honesty and plagiarism Plagiarism is the presentation of the thoughts or work of another as one's own (definition proposed by the University of Newcastle). Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting, and the proper referencing of sources in preparing all assessment items. The university regards plagiarism as a form of academic misconduct, and has very strict rules regarding plagiarism.	Quizzes, Computer assignments	30%	Midterm examination	30%	Final examination	40%	Total	100%
Quizzes, Computer assignments	30%								
Midterm examination	30%								
Final examination	40%								
Total	100%								

	Special consideration Requests for special consideration (for final examination only) must be made to the Office of Academic Affairs within one week after the examination. General policy and information on special consideration can be found at the Office of Academic Affairs. Meeting up with the lecturers after classes Students must make an appointment via emails if they want to meet up with the lecturer after classes and be on time. If there are any changes to the scheduled time, students must inform the lecturer immediately.
Reading list	Please note that it is very important to gain familiarity with the subject matter in the readings and cases prior to attendance in classes. <u>[1]Textbook:</u> David R. Anderson, Dennis J. Sweeney , Thomas A. Williams, Jeffrey D. Camm, James J. Cochran, 2012, "Quantitative Methods for Business", South-Western College Pub; 12 edition. <u>[2]Additional materials provided in Blackboard</u> The lecturer will attempt to make lecture notes and additional reading available on Blackboard. However, this is not an automatic entitlement for students doing this subject. Note that this is not a distance learning course, and you are expected to attend lectures and take notes. By this way, you will get the additional benefit of class interaction and demonstration. <u>[3]Other Resources, Support and Information</u> Additional learning assistance is available for students in this course and will be made available in Blackboard. Academic journal articles are available through connections via the VNU - Central Library. Recommended articles will be duly informed to the students.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (1 -10) is shown in the following table:

CLO	Program Learning Outcomes									
	a	b	c	d	e	f	g	h	i	j
1		x	x							
2			x	x						
3			x							
4						x				
5			x							
6						x				

Course learning outcomes

- CLO1. Understand and relate quantitative approaches to problems solving and decision making in business management
- CLO2. Explain various notions/concepts/principles in time series analysis; (build and interpret appropriate forecasting models critically)
- CLO3. Recognize appropriate techniques to initiate, plan, execute and control projects and meet challenges and deadlines
- CLO4. Use computer software for quantitative analysis
- CLO5. Recognize the benefits as well as the limits of quantitative analysis in business management
- CLO6. Learn to work as a collaborative team member

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and

construction management; and have suitable communication and interaction with people.

- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Chapter 1: Introduction to Quantitative Analysis	1, 5		Lectures	[1], [2], [3]
2	Chapter 2: Review probability concepts and applications	1	Quizzes, Examinations	Lectures, Assignments	[1], [2], [3]
3, 4	Chapter 3: Decision Analysis	1, 4	Quizzes, Examinations	Lectures, Assignments, Tutorials	[1], [2], [3]
5, 6	Chapter 5: Forecasting	1, 2, 4	Quizzes, Examinations	Lectures, Assignments, Tutorials	[1], [2], [3]
7, 8	Chapter 7: Linear programming	1, 4	Quizzes, Examinations	Lectures, Assignments, Tutorials	[1], [2], [3]
9, 10	Chapter 12: Project management	1, 3, 4	Quizzes, Examinations	Lectures, Assignments, Tutorials	[1], [2], [3]
11, 12	Chapter 13: Waiting Lines and Queuing Theory Models.	1, 4	Quizzes, Examinations	Lectures, Assignments, Tutorials	[1], [2], [3]
13	EFA, CFA, SEM	4, 6	Computer Assignments	Lectures, Computer Assignments	[1], [2], [3]

4. Date revised:

Ho Chi Minh City, dd/mm/yyyy
Head/Dean of Department/School
(Signature)

<Full Name>

GRADING RUBRIC FOR QUANTITATIVE PROBLEMS
MIDTERM EXAMINATION – Quantitative methods for Business (BA168IU)
Academic year: 2020 – 2021 (term 3)

Criteria	Capstone 4	Milestones		Benchmark 1
		3	2	
Interpretation Ability to explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words)	Provides accurate explanations of information presented in mathematical forms. Makes appropriate inferences based on that information. For example, accurately explains the trend data shown in a graph and makes reasonable predictions regarding what the data suggest about future events,	Provides accurate explanations of information presented in mathematical forms. For instance, accurately explains the trend data shown in a graph.	Provides a somewhat accurate explanation of the information in mathematical forms, but occasionally make minor mistakes in the computation. For example, accurately explain the data shown the the graph but may miscalculate the slope of a trend line	Attempts to explain information in mathematical forms but draw incorrect conclusions about what information means. For example, attempts to explain a trend data shown in a graph, but will frequently misinterpret the nature of that trend, perhaps by confusing positive and negative trends.
Representation Ability to convert relevant information into various mathematical forms (e.g., equations, graphs, diagrams, tables, words)	Skillfully converts relevant information into an insightful mathematical portrayal in a way that contributes to a further or deeper understanding.	Competently converts relevant information into an appropriate and desired mathematical portrayal.	Completes conversion of information but the resulting mathematical portrayal is partially appropriate or accurate.	Completes conversion of information but the resulting mathematical portrayal is inappropriate or inaccurate.
Calculation	Calculations attempted are essentially all successful and sufficiently comprehensive to solve the problem. Calculations are also presented elegantly (clearly, concisely, etc.)	Calculations attempted are essentially successful and sufficiently comprehensively solve the problem.	Calculations attempted are either unsuccessful or represent only a portion of the calculations required to comprehensively solve the problem.	Calculations are attempted but both are unsuccessful and both are not comprehensive

Application/Analysis Ability to make judgments and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis	Uses the quantitative analysis of data as the basis for deep and thoughtful judgments, drawing insightful, care-qualified conclusions from this work.	Uses the quantitative analysis of data as the basis for competent judgments, drawing reasonable and appropriately qualified conclusions from this work.	Uses the quantitative analysis of data as the basis for workmanlike (without inspiration or nuance, ordinary) judgments, drawing plausible conclusions from this work.	Uses the quantitative analysis of data as the basis for tentative, basic judgments, although is hesitant or uncertain about drawing conclusions from this work.
Assumptions Ability to make and evaluate important assumptions in estimation, modeling, and data analysis	Explicitly describes assumptions and provides a compelling rationale for why assumptions are appropriate.	Explicitly describes assumptions and provides a compelling rationale for why assumptions are appropriate.	Explicitly describes assumptions.	Attempts to describe assumptions
Communication Expressing quantitative evidence in support of the argument or purpose of the work (in terms of what evidence is used and how it is formatted, presented, and contextualized)	Uses quantitative information in connection with the argument or purpose of the work, present it in an effective format and explicates it with consistently high quality	Uses quantitative information in connection with the argument or purpose of the work, though data may be presented in a less than completely effective format or some parts of the explication may be uneven.	Uses quantitative information but does not effectively connect it to the argument or purpose of the work.	Presents an argument for which quantitative evidence is pertinent but does not provide adequate explicit numerical support. (May use quasi-quantitative words such as "many," "few," "increasing," "small," and the like in place of actual quantities.).



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: HUMAN RESOURCE MANAGEMENT

Course Code: **BA156IU**

1. General information

Course designation	Face-to-Face/Online/Hybrid
Semester(s) in which the course is taught	All semesters in the academic years
Person responsible for the course	Pham Tan Nhat, PhD Alan Tho, PhD Nguyen Tan Minh, PhD
Language	English
Relation to curriculum	Compulsory
Teaching methods	Student-centered method
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 115 Contact hours (lecture, discussion, etc.): 45 Private study including examination preparation, specified in hours ¹ : 70
Credit points	03
Required and recommended prerequisites for joining the course	Principles of Management

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course objectives	The course will equip students with a fundamental understanding of human resource management theories and practices in an organization. It will give students opportunities to discover the basic principles of people management; to understand how an organization can gain competitive advantages through managing its human resources effectively and efficiently. The course also provides students the platforms to practice and sharpen their skills in terms of planning, recruiting and selecting employees, evaluating performance, designing training program, and developing the compensation and benefits systems.																																																																		
Course learning outcomes	CLO1 (Attitudes): Understand professional ethics and proper understanding of integrity, as well as the working environment with an emphasis on professional and appropriate attitudes and decisions. CLO2 (Knowledge): Understand the global trends in HRM and new roles and responsibilities of HRM in today's increasingly globalized world, which include providing strategies to deal with workforce diversity, helping organizations manage conflict amongst employees, and providing internationally personnel strategies for multinational companies. CLO3 (Knowledge): Understand and apply the basic HRM activities, models, and processes based on the type of business and other factors. CLO4 (Skills): Use their English skills and available resources (e.g., Library, Internet, Computer) to analyze HR problems and evaluate alternative solutions as well as possible scenarios to see how they could impact the business.																																																																		
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize) <table border="1"> <thead> <tr> <th>No.</th><th>Contents</th><th></th><th></th></tr> </thead> <tbody> <tr> <td>1</td><td>Managing Human Resources</td><td>1</td><td>I, T</td></tr> <tr> <td>2</td><td>Trends in Human Resource Management</td><td>1</td><td>I, T, U</td></tr> <tr> <td>3</td><td>Analyzing Work and Designing Jobs</td><td>1</td><td>I, T</td></tr> <tr> <td>4</td><td>Planning for and Recruiting Human Resources</td><td>1</td><td>I, T</td></tr> <tr> <td>5</td><td>Selecting Employees and Placing them in Jobs</td><td>1</td><td>I, T</td></tr> <tr> <td>6</td><td>Training Employees</td><td>1</td><td>I, T, U</td></tr> <tr> <td>7</td><td>Developing Employees for Future Success</td><td>1</td><td>I, T</td></tr> <tr> <td>8</td><td>Managing Employees' Performance</td><td>1</td><td>I, T</td></tr> <tr> <td>9</td><td>Separating and Retaining Employees</td><td>1</td><td>I, T</td></tr> <tr> <td>10</td><td>Establishing a Pay Structure</td><td>1</td><td>I, T</td></tr> <tr> <td>11</td><td>Recognizing Employee Contributions with Pay</td><td>1</td><td>I, T</td></tr> <tr> <td>12</td><td>Providing Employee Benefits</td><td>1</td><td>I, T</td></tr> <tr> <td>13</td><td>Collective bargaining and Labor Relation</td><td>1</td><td>I, T</td></tr> <tr> <td>14</td><td>Managing Human Resources Globally</td><td>1</td><td>I, T</td></tr> <tr> <td>15</td><td>Final course review</td><td>1</td><td>I, T</td></tr> </tbody> </table>			No.	Contents			1	Managing Human Resources	1	I, T	2	Trends in Human Resource Management	1	I, T, U	3	Analyzing Work and Designing Jobs	1	I, T	4	Planning for and Recruiting Human Resources	1	I, T	5	Selecting Employees and Placing them in Jobs	1	I, T	6	Training Employees	1	I, T, U	7	Developing Employees for Future Success	1	I, T	8	Managing Employees' Performance	1	I, T	9	Separating and Retaining Employees	1	I, T	10	Establishing a Pay Structure	1	I, T	11	Recognizing Employee Contributions with Pay	1	I, T	12	Providing Employee Benefits	1	I, T	13	Collective bargaining and Labor Relation	1	I, T	14	Managing Human Resources Globally	1	I, T	15	Final course review	1	I, T
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Examination forms	Two assignments (midterm and final)
Study and examination requirements	Study requirements: - Attend more than 80% of contact hours - Actively participate in class activities - Fulfill tasks given by instructor after class - Use their own laptop in class only for learning purposes - Access the IU Blackboard frequently <i>Assignments/Examination requirements (tentative)</i> Midterm assignment: <i>The assignment includes the following sections</i> 1. First Page (Cover page) (IU logo, Subject, Student name and surname, ID student, Date...) 2. Introduction 3. Literature review 4. Analysis 5. Recommendations 6. Conclusion 7. References 8. Appendices and supplementary materials <i>Note: Students are asked to follow the citing and referencing guidelines of the International University.</i> Final assignment: <i>The assignment includes the following sections:</i> 1. First Page (Cover page) (IU logo, Subject, Student name and surname, ID student, Date...) 2. Introduction 3. Literature review 4. Analysis 5. Recommendations 6. Conclusion 7. References 8. Appendices and supplementary materials <i>Note: Students are asked to follow the citing and referencing guidelines of the International University.</i>

Reading list	Main textbook: Raymond A. Noe, John R. Hollenbeck, Barry Gerhart and Patrick M. Wright (2018). Fundamentals of Human Resource Management, 7th Edition. McGraw-Hill Reference Susan L. Verhulst and David A. DeCenzo (2018). Fundamentals of Human Resource Management, 13th Edition. Wiley Additional materials provided in Blackboard The lecturer will attempt to make lecture notes and additional reading available on Blackboard. However, this is not an automatic entitlement for students doing this subject. Note that this is not a distance learning course, and you are expected to attend lectures and take notes. This way, you will get the additional benefit of class interaction and demonstration. Recommended Internet sites Harvard Business Review The Saigon Times The Economist Recommended Journals Human Resource Management Human Resource Management Journal The International Journal of Human Resource Management Asia Pacific Journal of Human Resources Human Relations

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (1-9) is shown in the following table:

CLO	Program Learning Outcomes									
	a	b	c	d	e	f	g	h	i	j
1							x		x	
2	x									
3	x									
4								x		

Course Learning Outcomes

- CLO1 (Attitudes): Understand professional ethics and proper understanding of integrity, as well as the working environment with an emphasis on professional and appropriate attitudes and decisions.
- CLO2 (Knowledge): Understand the global trends in HRM and new roles and responsibilities of HRM in today's increasingly globalized world, which include providing strategies to deal

with workforce diversity, helping organizations manage conflict amongst employees, and providing internationally personnel strategies for multinational companies.

- CLO3 (Knowledge): Understand and apply the basic HRM activities, models, and processes based on the type of business and other factors.
- CLO4 (Skills): Use their English skills and available resources (e.g., Library, Internet, Computer) to analyze HR problems and evaluate alternative solutions as well as possible scenarios to see how they could impact the business.

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Managing Human Resources	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
2	Trends in Human Resource Management	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
3	Analyzing Work and Designing Jobs	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
4	Planning for and Recruiting Human Resources	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
5	Selecting Employees and Placing them in Jobs	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
6	Training Employees	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
7	Developing Employees for Future Success	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
8	Midterm exam				
9	Managing Employees' Performance	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
10	Separating and Retaining Employees	1,2,3,4	Written report, Performance in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
11	Establishing a Pay Structure	1,2,3,4	Written report,	Lecture, Discussion, In-class	Books Internet sites Journals

			Performanc e in the class		Blackboard
12	Recognizing Employee Contributions with Pay	1,2,3,4	Written report, Performanc e in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
13	Providing Employee Benefits	1,2,3,4	Written report, Performanc e in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
14	Collective bargaining and Labor Relation	1,2,3,4	Written report, Performanc e in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
15	Managing Human Resources Globally	1,2,3,4	Written report, Performanc e in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
16	Final course review	1,2,3,4	Written report, Performanc e in the class	Lecture, Discussion, In-class	Books Internet sites Journals Blackboard
17	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
Performance in the class (30%)	Attendance and contribution during the class 50% pass			
Written report (midterm assignment) (30%)		Assignment 50% pass	Assignment 50% pass	Assignment 50% pass
Written report (midterm assignment) (40%)		Assignment 50% pass	Assignment 50% pass	Assignment 50% pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

6. Date revised: July 28, 2022

Ho Chi Minh City, .../...../.....
Head/Dean of Department/School
(Signature)



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: Operation Management in Construction

Course Code: CM301IU

1. General Information

<i>Course Name</i>	- (in English): <i>Operation Management in Construction</i> - (in Vietnamese): <i>Quản lý vận hành trong xây dựng</i>
<i>Course designation</i>	<i>In this course, students will study about operation management of construction projects. The students are able to know how to plan site organization, make contract planning, and conduct work study. They also have knowledge in health and safety, waste, stock and materials, supply chain, and quality management in construction sites.</i>
<i>Course Type</i>	<i>General knowledge</i> ☒ <i>Fundamental</i> <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others</i>
Semester(s) in which the module is taught	6
Person responsible for the module	Dr. Pham Thanh Tung
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45 Private study including examination preparation, specified in hours ¹ : 90		
Credit points	3		
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM205IU Introduction to Construction Management		
Module objectives/intended learning outcomes	Overall objectives Upon successful completion of this course, the students should be able to demonstrate knowledge of operation management in construction including site organization; contract planning; work study conducting; health and safety managing; construction waste managing; construction materials and stocks managing; construction supply chain; construction quality managing. Students who complete the course will be able to perform the following tasks: (1) Be able to organize a construction site. (2) Be able to plan and manage related issues during construction phases, including contract, work study, health and safety, waste, material, quality.		
Content	The description of the contents should clearly indicate the weighting of the content and the level. Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Site organization	2	T
	Contract planning	2	T
	Work study	1	T
	Health and safety	2	T, U
	Waste management	1	T, U
	Waste management	1	T
	Stock control and	2	T, U

	materials management		
	Supply chain management	2	T
	Quality management	2	T
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Chris March, Operations Management for Construction, 2009, 1st edition. [2] Jay Heizer, Barry Render, Operations Management, 2011, 10th edition. [3] Benton, W.C. and Linda McHenry, L. (2010). Construction Purchasing & Supply Chain Management, McGraw Hill, 1st Edition		

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- CLO1: Be able to organize a construction site
- CLO2: Be able to plan and manage related issues during construction phases, including contract, work study, health and safety, waste, material, quality.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x			x					
CLO2			x		x					

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1, 2	Site organization	1	Quiz	Lecture Class discussion	[1]
3, 4	Contract planning	2	Quiz	Lecture Class discussion	[1]
5	Work study	2	Quiz	Lecture Class discussion	[1]
6, 7	Health and safety	2	Presentation Quiz	Lecture Class discussion	[1]
8	Waste management MIDTERM EXAM	2	Quiz EXAM	Lecture Class discussion EXAM	[1]
9	Waste management	2	Quiz	Lecture Class discussion	[1]
10, 11	Stock control and materials management	2	Quiz	Lecture Class discussion	[1]
12, 13	Supply chain management	2	Quiz	Lecture Class discussion	[1]
14, 15	Quality management	2	Presentation Quiz	Lecture Class discussion	[1]
16, 17	FINAL EXAM				

4. Assessment plan

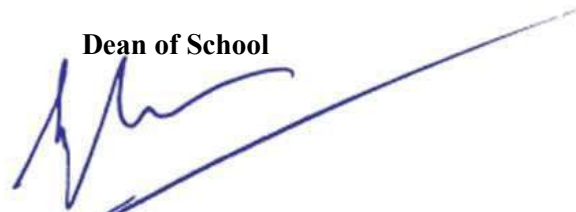
Assessment Type	CLO1	CLO2
In-class exercises/quizzes (25%)	Quizzes 60%Pass	Quizzes 60%Pass
Homework exercises/ Presentation (15%)	Presentation 60%Pass	Presentation 60%Pass
Midterm exam (20%)	60% Pass	60% Pass
Final exam (40%)	60% Pass	60% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: June 02, 2025

Ho Chi Minh City, 02/06/2025

Dean of School

A handwritten signature in blue ink, consisting of stylized, flowing cursive letters, positioned above the printed name.

Dr. Nguyễn Hoài Nghĩa

6. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- CLO1: Be able to organize a construction site
- CLO2: Be able to plan and manage related issues during construction phases, including contract, work study, health and safety, waste, material, quality.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x			x					
CLO2			x		x					

Program Learning Outcome:

- (k) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (l) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (m) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (n) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (o) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (p) An ability to use tools and techniques required for identifying, analysing, and evaluating the

problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

- (q) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (r) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (s) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (t) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

7. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1, 2	Site organization	1	Quiz 1	Lecture Class discussion	
3, 4	Contract planning	2	Presentation Quiz	Lecture Class discussion	
5	Work study	2	Presentation Quiz	Lecture Class discussion	
6, 7	Health and safety	2	Presentation Quiz	Lecture Class discussion	
8	Waste management	2	Presentation Quiz	Lecture Class discussion	
9	MIDTERM EXAM				
10	Waste management	2	Presentation Quiz	Lecture Class discussion	
11, 12	Stock control and materials management	2	Presentation Quiz	Lecture Class discussion	
13, 14	Supply chain management	2	Presentation Quiz	Lecture Class discussion	
15, 16	Quality management	2	Presentation Quiz	Lecture Class discussion	
17	FINAL EXAM				

8. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/quizzes (25%)	50%Pass	50%Pass
Homework exercises/ Presentation (15%)		Presentation 50%Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (40%)		50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

9. Date revised: June 06, 2023

Ho Chi Minh City, 30/5/2024

DEAN OF SCHOOL OF CEM



Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: Project Feasibility Study and Appraisal

Course Code: CM308IU

1. General Information

Course name	CM308IU – Project Feasibility Study and Appraisal CM308IU – Lập và thẩm định dự án
Module designation	This course is designed to provide students knowledge about construction project feasibility study and appraisal. Characteristics of projects including attributes, perspectives, phases, problems of cost and utility, needs and objectives, technical design, financial and economic analysis... are introduced. Students are also provided tools and techniques including systems, SWOT, strategy, risk ... analyses to evaluation the feasibility of construction projects.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	3
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Compulsory

Teaching methods	Lecture, presentation, and assignments.									
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90									
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS									
Number of periods	Theory: 45 Practice: 00									
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM303IU Construction Planning and Scheduling									
Module objectives/intended learning outcomes	Overall objectives are to equip IU students with knowledge of project assessment, as well as the related assessment tool and techniques. Students who complete the course will be able to perform the following tasks: (1) Having knowledge of development and necessary data and document of construction project feasibility study. (2) Having knowledge of related tool and techniques of project assessment. (3) Utilize the assessment tools and techniques including systems, SWOT, strategy, risk ... analyses to evaluation the feasibility of construction									
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><td>Topic</td><td>Weight</td><td>Level</td></tr><tr><td>Project characteristics</td><td>1</td><td>I</td></tr><tr><td>Project alignment: needs, objectives and effects</td><td>1</td><td>T</td></tr></table>	Topic	Weight	Level	Project characteristics	1	I	Project alignment: needs, objectives and effects	1	T
Topic	Weight	Level								
Project characteristics	1	I								
Project alignment: needs, objectives and effects	1	T								

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Objectives and their formulation	1	T
	Technical problems	1	T, U
	Problems of cost and utility	1	T, U
	Environmental impacts	1	T
	System analysis	1	T
	SWOT analysis	1	T, U
	Total construction investment amount	1	T, U
	Assessing financial, economic and profitability	1	T, U
	Top-down probability-based cost estimating	1	T, U
	Risk analysis Probability-based progress analysis	1	T, U
	Project appraisal procedure	2	T, U
	Related Vietnamese laws and regulations	1	T
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Knut Samset, <i>Early Project Appraisal – Making the Initial Choices</i>, 2010, 1st edition. [2] William B. Brueggeman, Jeffrey D. Fisher, <i>Real Estate Finance and Investments</i>, 2008, 13th edition. [3] Building Construction Costs With RSMeans Data 2022 (Means Building Construction Cost Data). Matthew Doheny. 2021. Annual edition. R S Means Co. 978-1955341011. [4] Foundations of Investment Management: Mastering Financial Markets, Asset Classes, and Investment Strategies. David E. Linton. 2020. None edition. J. Ross Publishing. 978-1604271652. [5] Engineering Project Appraisal. Martin Rogers , Aidan Duffy. 2012. 2nd edition. Wiley-Blackwell. 978-0470672990. References:		

[1] David C. ling, Wayne R. Archer, <i>Real Estate Principles – a Value Approach</i> , 2008, 2 nd edition.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Having knowledge of development and necessary data and document of construction project feasibility study.
- (2) CLO2: Having knowledge of related tool and techniques of project assessment.
- (3) CLO3: Utilize the assessment tools and techniques including systems, SWOT, strategy, risk ... analyses to evaluation the feasibility of construction

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x								
CLO2		x	x	x						
CLO3		x	x	x		x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express

themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.

- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Project characteristics	1		Lecture Class discussion	[1] Chapter 1
2	Project alignment: needs, objectives and effects	1	Quiz 1	Lecture Class discussion	[1] Chapter 2
3	Objectives and their formulation	1	Quiz 2	Lecture Class discussion	[1] Chapter 3, 4
4	Technical problems	1	Quiz 3	Lecture Class discussion	[1] Chapter 4
5	Problems of cost and utility	1	Quiz 4	Lecture Class discussion	[1] Chapter 5
6	Environmental impacts	1	Quiz 5 Presentation 1	Lecture Class discussion	[1] Chapter 6
7	System analysis	1	Quiz 6 Presentation 1	Lecture Class discussion	[1] Chapter 7
8	SWOT analysis Midterm exam	2	Quiz 7 Midterm exam	Lecture Class discussion Test	[1] Chapter 8
9	Total construction investment amount	2	Quiz 8	Lecture Class discussion	[1] Chapter 9
10	Assessing financial, economic and profitability	2, 3	Quiz 9	Lecture Class discussion	[1] Chapter 10
11	Top-down probability-based cost estimating	3	Quiz 10 Presentation 2	Lecture Class discussion	[1] Chapter 11
12	Risk analysis Probability-based progress analysis	3	Quiz 11 Presentation 2	Lecture Class discussion	[1] Chapter 11
13-14	Project appraisal procedure	3	Quiz 12	Lecture Class discussion	[1] Chapter 11

Week	Topic	CLO	Assessments	Learning activities	Resources
15	Related Vietnamese laws and regulations	1		Lecture Class discussion	
16	Reservation week				
17-18	FINAL EXAM				

4. Assessment plan

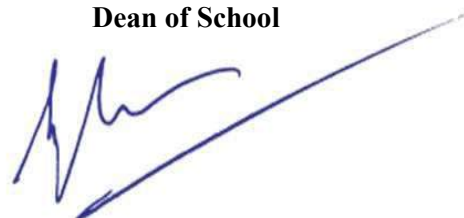
Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (10%)	Qz1, Qz2, Qz3, Qz4, Qz5, Qz6 50%Pass	Qz7, Qz8, Qz9 50%Pass	Qz9, Qz10, Qz11, Q12 50%Pass
Homework exercises/ Presentation (20%)		Presentation 1 50%Pass	Presentation 2 50%Pass
Midterm exam (20%)	50% Pass	50% Pass	
Final exam (50%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name

**CONSTRUCTION PROJECT MANAGEMENT
(PMBOK EXTENSION)**

Course Code: CM311IU

1. General Information

Course name	CM311IU – Construction Project Management (PMBOK Extension) CM311IU – Quản lý dự án xây dựng (Mở rộng PMBOK)
Module designation	In this course, students will study the general knowledge of project management with the extension in construction industry
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	7 or 8
Person responsible for the module	Dr. Nguyen, Van Tiep, Dr. Tran, Thanh Tung
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5

	Private study including examination preparation, specified in hours ¹ : 90																																				
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS																																				
Number of periods	Theory: 45 Practice: 00																																				
Required and recommended prerequisites for joining the module	Previous course: CM305IU - Construction Cost Management, CM303IU - Construction Planning and Scheduling																																				
Module objectives/intended learning outcomes	Overall objectives are to provide students with the insight of construction project management contents. Students who complete the course will be able to perform the following tasks: (1) Having knowledge of construction project management (2) Having knowledge of PMBOK																																				
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction to conditions of contract</td><td>1</td><td>I</td></tr><tr><td>Insurance and security</td><td>1</td><td>T</td></tr><tr><td>Administration of the contract</td><td>1</td><td>T, U</td></tr><tr><td>Defaults and disputes</td><td>1</td><td>T, U</td></tr><tr><td>Subcontracts</td><td>1</td><td>T, U</td></tr><tr><td>Change Orders and Variations</td><td>1</td><td>T, U</td></tr><tr><td>Delays and extensions</td><td>1</td><td>T, U</td></tr><tr><td>Interim valuations</td><td>1</td><td>T, U</td></tr><tr><td>Completion of the project</td><td>1</td><td>T, U</td></tr><tr><td>FIDIC contracts</td><td>5</td><td>T, U</td></tr><tr><td>Related Vietnamese laws and regulations</td><td>1</td><td>T</td></tr></table>	Topic	Weight	Level	Introduction to conditions of contract	1	I	Insurance and security	1	T	Administration of the contract	1	T, U	Defaults and disputes	1	T, U	Subcontracts	1	T, U	Change Orders and Variations	1	T, U	Delays and extensions	1	T, U	Interim valuations	1	T, U	Completion of the project	1	T, U	FIDIC contracts	5	T, U	Related Vietnamese laws and regulations	1	T
Topic	Weight	Level																																			
Introduction to conditions of contract	1	I																																			
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Completion of the project	1	T, U																																			
FIDIC contracts	5	T, U																																			
Related Vietnamese laws and regulations	1	T																																			
Examination forms	Constructed-response test																																				
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged.																																				

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Assignments/Examination: Students must have more than 50/100 points overall to pass this module.
Reading list	Textbook: [1] Project Management Institute. (2016). Construction Extension to the PMBOK, 2nd ed. Pennsylvania: Project Management Institute. [2] Construction Extension to the PMBOK. Project Management Institute. 2016. None edition. Project Management Institute. 978-1628250909 [3] Fundamentals of Project Management, 2ed: Planning and control techniques using the latest PMBOK 6ed and APM BoK 6ed. Rory Burke. 2019. 2nd edition. Burke Publishing. 978-0994149213. References: [1]. Project Management Institute. (2003). Construction Extension to A guide to the PMBOK, 1st ed. Pennsylvania: Project Management Institute. [2]. Fisk, E.R. and Reynolds, W.D. (2014). Construction Project Administration, 10th ed. New Jersey: Pearson

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: A deep understanding of construction project management.
- (2) CLO2: A deep understanding of applications of project management fields in construction industry.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1	x		x	x						
CLO2	x		x	x			x			

Program Learning Outcome:

- a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect, and interpret data based on the methods of academic research.
- e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work

on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership

h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.

i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.

j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
1-2	Project management in the construction industry Organizational Influences on Construction Project Management Project Stakeholders and Governance Project Life Cycles Project Management Knowledge Areas, Process Groups, and Processes Advances and Societal Influences in Construction Project Management	CLO1	Lecture Class discussion	Quiz
3	Project integration management Project Integration Management in Construction Project Integration Management Initiating Project Integration Management Planning Project Integration Management Executing Project Integration Management Monitoring and Control Project Integration Management Closing Integration Management Advancements	CLO1, CLO2	Lecture Class discussion	Quiz
4	Project scope management Project Scope Management in Construction Project Scope Management Planning Project Scope Monitoring and Control	CLO1, CLO2	Lecture Class discussion	Quiz Presentation
5	Project schedule management Project Schedule Management in Construction Project Schedule Management Planning	CLO1, CLO2	Lecture Class discussion	Quiz Presentation

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
	Project Schedule Management Monitoring and Control			
6	Project cost management Project Cost Management in Construction Project Cost Management Planning Project Cost Management Monitoring and Control	CLO1, CLO2	Lecture Class discussion	Quiz
7	Project quality management Project Quality Management in Construction Project Quality Management Planning Project Quality Management Executing	CLO1, CLO2	Lecture Class discussion	Quiz Presentation
8	Project resource management Project Resource Management in Construction Project Resource Management Planning Project Resource Management Executing Project Resource Management Monitoring and Controlling Project Resource Management Closing Midterm Exam	CLO1, CLO2	Lecture Class discussion Test	Quiz Presentation
9	Project communications management Project Communications Management in Construction Project Communications Management Planning Project communication management executing Project communications management monitoring and control	CLO1, CLO2	Lecture Class discussion	Quiz
10	Project risk management Project Risk Management in Construction Project Risk Management Planning Project risk management monitoring and control	CLO1, CLO2	Lecture Class discussion	Quiz
11	Project procurement management Project Procurement Management in Construction Project Procurement Management Planning Project communication management executing	CLO1, CLO2	Lecture Class discussion	Quiz

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
	Project communications management monitoring and control Project communications management closing			
12	Project stakeholder management Stakeholder Management in Construction Project Stakeholder Management Initiating Project Stakeholder Management Planning Project Stakeholder Management Executing Project Stakeholder Management Monitoring and Controlling	CLO1, CLO2	Lecture Class discussion	Quiz
13-14	Project health, safety, security, and environmental (HSSE) management Project Health, Safety, Security, and Environment Management in Construction Project HSSE Management Planning Project HSSE Management Executing Project HSSE Management Monitoring and Controlling	CLO1, CLO2	Lecture Class discussion	Quiz
15	Project financial management Project Financial Management in Construction Project Financial Management Planning Project Financial Management Monitoring and Control	CLO1, CLO2	Lecture Class discussion	Quiz

4. Course Assessment

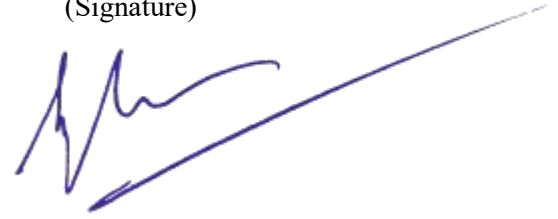
Assessment Component	Assessment form	Percentage %
A1. Process assessment	A1.1 Quiz	10
	A1.2 Presentation	10
	A1.3 Attendance	10
A2. Midterm assessment	A2.1 Mid-term exam	20
A3. Final assessment	A3.1 Final exam	50

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: xx/xx/2025

Ho Chi Minh City, xx/xx/2025

Dean of School of Civil Engineering and Management
(Signature)

A handwritten signature in blue ink, consisting of stylized, fluid strokes. The signature appears to be a combination of initials and a surname, written in a cursive style.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS
BUSINESS RESEARCH METHODS
BA161IU

1. General information

Course designation	<i>This course provides important topics in the area of research method. It introduces the whole research process, from formulation of research questions to research design and end up with report writing.</i>
Semester(s) in which the course is taught	
Person responsible for the course	
Language	English
Relation to curriculum	<i>Compulsory</i>
Teaching methods	<i>Lecture, Tutorial, In-class exercises, Assignment, Research report</i>
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload:</i> <i>Contact hours (please specify whether lecture, exercise, laboratory session, etc.):</i> <i>Private study including examination preparation, specified in hours¹:</i>
Credit points	3

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the course	Statistics for Business	
Course objectives	This course seeks to: - provide student with a good understanding of business research - equip student with practical tools and skills to conduct business research -help students differentiate different methods of research: qualitative vs quantitative -provide opportunities to do scientific research and presentation skills	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge (R)	CLO1 to describe basic concepts in business research method
	Skill (M)	CLO2 to identify research problems/gaps and produce research questions or proposals
	Skill (M)	CLO3 to conduct scientific research and write scientific research reports
	Attitude	CLO4 to learn within teams, identify ethical issues in research and recognize the need to adhere to ethical guidelines when conducting research

Content	The course is designed to provide students with a strong foundation in business research based on seven key activities: (1) identifying research problems, (2) propose research objectives (3) review literature, (4) design method (5) implement data collection (6) analyze data (7) conclude and recommend		
	Weight: lecture session (3 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Introduction to Business Research The Research Process: An Overview	1	I
	Research Question Formulation (Cont.) Research Process & Proposal	1	T
	Research Design (1):	1	T
	Research design (2)	1	U
	Research design (3)	1	U
	Sampling methods for quantitative studies	1	T
	Measurement Issues (1)	1	T
	Measurement Issues (2)	1	U
	Data Screening and Preparation	1	T
	Hypothesis testing	1	T
	Measures of association	1	T
Biases and Threats to reliability and validity	1	T	
Student presentation and course review	3	U	
Examination forms	Written Report Exam		

Study and examination requirements	To pass this course, student must: - submit/ complete all reports on time - attain an overall pass mark of 50% in the course GRADING POLICY Grades can be based on the following: <table border="1"> <tr> <td>Attendance and Class discussion</td><td>10%</td></tr> <tr> <td>Class exercises</td><td>10%</td></tr> <tr> <td>Individual or Group project (full version: from Title to Conclusion and references or a research proposal version: from Title to Methodology)</td><td>45%</td></tr> <tr> <td>Final examination</td><td>35%</td></tr> <tr> <td>Total</td><td>100%</td></tr> </table> COURSE POLICIES Attendance Your regular and punctual attendance at lectures and related seminars (if any) is expected in this course. University regulations indicate that if students attend less than 80% of scheduled classes they may be refused final assessment. Regular attendance is essential for successful performance and learning in this course, particular in view of the interactive teaching and learning approach adopted. Please inform your lecture if you are unable to attend the class, and arrange for a classmate to collect any handouts. Workload It is expected that you will spend at least 6 hours per week studying this course. This time should be made up of reading, working on individual assignments, group assignments and attending class lectures. In periods where you need to complete assignments or prepare for examinations, the workload may be greater. General Conduct and Behaviour You are expected to conduct yourself with considerable and respect for the needs of your fellow students and teaching staff. Conduct that unduly disrupts or interferes with a class, such as ringing, or talking on mobile phones, or chatting on the internet, is not acceptable and students may be asked to leave the class. Keeping informed You should take note of all announcements made in lectures, tutorials or on the course website. From time to time, the University will send important announcements to you through website, course website and/ or Announcement Board (of School of Business and/ or Academic Affairs) without providing you with a paper copy. You will be deemed to have received this information.	Attendance and Class discussion	10%	Class exercises	10%	Individual or Group project (full version: from Title to Conclusion and references or a research proposal version: from Title to Methodology)	45%	Final examination	35%	Total	100%
Attendance and Class discussion	10%										
Class exercises	10%										
Individual or Group project (full version: from Title to Conclusion and references or a research proposal version: from Title to Methodology)	45%										
Final examination	35%										
Total	100%										

	Academic honesty and plagiarism The University regards plagiarism as a form of academic misconduct, and has very strict rules regarding plagiarism. Plagiarism is the presentation of the thoughts or work of another as one's own. Examples include: - direct duplication of the thoughts or work of another, including by copying work, or knowingly permitting it to be copied. This includes copying material. Ideas or concepts from a book, article, report or other written document (whether published or unpublished), composition, artwork, design, drawing, circuitry, computer program or software, web site, Internet, other electronic resource, or another person's assignment without appropriate acknowledgement; - paraphrasing another person's work with very minor changes keeping the meaning, form and/ or progression of ideas of the original; - piecing together sections of the work of others into a new whole; - presenting an assessment item as independent work when it has been produced in whole or part in collusion with other people, for example, another student or a tutor; The inclusion of the thoughts or work of another with attribution appropriate to the academic discipline does not amount to plagiarism. Students are also reminded that careful time management is an important part of study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting and the proper referencing of sources in preparing all assessment items. Meeting up with the lecturers after classes Students must make an appointment via emails if they want to meet up with the lecturer after classes and be on time. If there are any changes to the scheduled time, students must inform the lecturer immediately.
Reading list	The following text and references are essential for the course. <u>Textbook:</u> 1. Cooper, R.D. & Schindler, S.P. (2011). Business Research Methods. 12nd Ed. McGraw-Hill Irwin. NY. 2. Bhattacharjee (2012), Social Science Research: Principles, Methods, and Practices 3. Woodside (2010), Case Study Research: Theory, Methods, Practice * Used with kind permission from the University of New South Wales <u>References:</u> 1. Hancock and Algozzine (2006), Doing case study research: a practical guide for beginning researchers. 2. Dul and Hak (2008), Case study Methodology in Business Research. 3. Yin (2009), Case study research: design and methods.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (1-10) is shown in the following table:

CLOs	PLOs									
	a	b	c	d	e	f	g	h	i	j
1		x								
2				x						
3				x		x		x		
4						x				x

Course Learning Outcomes

- CLO1 to describe basic concepts in business research method
- CLO2 to identify research problems/gaps and produce research questions or proposals
- CLO3 to conduct scientific research and write scientific research reports
- CLO4 to learn within teams, identify ethical issues in research and recognize the need to adhere to ethical guidelines when conducting research

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate

with their specialist colleague.

- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to Business Research The Research Process: An Overview	123	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. Chapter 4
2	Research Question Formulation (Cont.) Research Process & Proposal	123	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. Chapter 5
3	Research Design (1): Overview Using secondary data Qualitative Methods	123	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. Chapter 6, 7
4	Research design (2): Quantitative approach	123	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 9&10.
5	Research design (3): Quantitative approach	123	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 10
6	Sampling methods for quantitative studies	123	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 14
7	Measurement Issues (1)	123	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 11
8	Midterm		No midterm		
9	Measurement Issues (2) Questionnaires & Instruments	1234	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 11

10	Data Screening and Preparation Descriptive statistics	1234	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 15
11	Hypothesis testing Measures of association	1234	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 18
12	Measures of association (2) An overview of bi/multivariate Analysis	1234	In-class exercise	Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 18, 19
13	Biases and Threats to reliability and validity Ethical consideration in business research	1234		Lecture, Discussion	Cooper, R.D. & Schindler, S.P. . Chapter 2
14	Student's presentation of group project output (All groups)			Lecture, Discussion	
15	Student's presentation of group project output (All groups)	1234		Group submission	report
16	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
Attendance and in class exercises (20%)	70% pass			70% pass
Written report (45%)	70% pass	70% pass	70% pass	70% pass
Final exam (35%)	70% pass	70% pass	70% pass	

Note: %Pass: Target that % of students having scores greater than 70 out of 100.

5. Date revised: 15 April 2023

	<i>Ho Chi Minh City, dd/mm/yyyy</i> <i>Head/Dean of Department/School</i> <i>(Signature)</i> <i><Full Name></i>



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Civil Engineering and Management

COURSE SYLLABUS

**Course Name: ARTIFICIAL INTELLIGENCE IN CIVIL ENGINEERING AND
CONSTRUCTION MANAGEMENT**

Course Code: CE217IU

1. General information

Course name	- <i>ARTIFICIAL INTELLIGENCE IN CIVIL ENGINEERING AND CONSTRUCTION MANAGEMENT</i> - <i>TRÍ TUỆ NHÂN TẠO TRONG KỸ THUẬT VÀ QUẢN LÝ XÂY DỰNG</i>
Course designation	This course introduces how we apply artificial intelligence in civil engineering (CE) and construction management (CM). Several typical problems of applied artificial intelligence in CE and CM are introduced, such as regression/classification/segmentation/abnormality detection in experimental data, monitoring data, etc. The course introduces machine learning methods frequently utilized in CE and CM, including k-nearest neighbor, neural network, decision tree, and random forest, and explains their concepts so that students can know how to formulate a problem-solving.
Course type	☐ <i>General knowledge</i> ☐ <i>Fundamental</i> ☒ <i>Specialized knowledge</i> ☐ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i>
Semester(s) in which the course is taught	
Person responsible for the course	Dr. Pham, Nguyen Linh Khanh; Dr. Nguyen, Ba Quang Vinh; Dr. Nguyen, Van Tiep
Language	English
Relation to curriculum	<i>Compulsory</i>
Teaching methods	Lecture, discussion, and assignments.

Workload (incl. contact hours, self-study hours)	Total workload: 127.5 (Estimated) Contact hours: - lecture: 30 - Discussion: 7.5 Private study, including examination preparation, specified in hours: 90	
Credit points	3 credits/ 4.64 ECTS	
Number of periods	Theory: 45 Practice: 0	
Required and recommended prerequisites for joining the course		
Course objectives	The course provides students with basic definitions of machine learning and its implications in industry. The students have the ability to recognize and formulate the problems in CE and CM that AI can apply. Furthermore, some basis machine algorithms (e.g., neural network, support vector machine, decision tree) are introduced to aid the student in analyzing and solving real case problems. Also the impacts and contemporary issues of artificial intelligence in CE and CM are also discussed.	
Course learning outcomes	Upon the successful completion of this course, students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Understand basic definitions of machine learning, and its implications in the industry
	Skill	CLO2. Apply mathematics and ML algorithms to solve problems. CLO3. Design and conduct experiments, analyze and interpret CE and CM data
	Attitude	

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction</td><td>1</td><td>I</td></tr><tr><td>Linear Algebra</td><td>1</td><td>T</td></tr><tr><td>Data analysis</td><td>2</td><td>T, U</td></tr><tr><td>Machine learning – Unsupervised learning algorithm</td><td>2</td><td>T</td></tr><tr><td>Machine learning – Supervised learning algorithm</td><td>2</td><td>T</td></tr><tr><td>Neural network</td><td>2</td><td>T</td></tr><tr><td>Machine learning issues</td><td>1</td><td>I</td></tr><tr><td>Case studies</td><td>1</td><td>I</td></tr></table>	Topic	Weight	Level	Introduction	1	I	Linear Algebra	1	T	Data analysis	2	T, U	Machine learning – Unsupervised learning algorithm	2	T	Machine learning – Supervised learning algorithm	2	T	Neural network	2	T	Machine learning issues	1	I	Case studies	1	I
Topic	Weight	Level																										
Introduction	1	I																										
Linear Algebra	1	T																										
Data analysis	2	T, U																										
Machine learning – Unsupervised learning algorithm	2	T																										
Machine learning – Supervised learning algorithm	2	T																										
Neural network	2	T																										
Machine learning issues	1	I																										
Case studies	1	I																										
Examination forms	Constructed-response test																											
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: To pass this module, students must have more than 50/100 points overall.																											
Reading list	[1] Deep Learning, Ian Goodfellow, Yoshua Bengio, and Aaron Courville, The MIT Press, 2016 (free online: http://www.deeplearningbook.org/) [2] Hands-on Machine Learning with Scikit-Learn & Tensorflow, Aurelien Geron, O'Reilly, 2017.																											

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-3) and Program Intended Learning Outcomes (ILO) (a-k) is shown in the following table:

	ILO									
CLO	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1		x								
2		x	x							
3				x	x					x

Program Intended Learning Outcome:

- ILO1: An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.

- ILO2: An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- ILO3: An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- ILO4: An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- ILO5: An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- ILO6: An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- ILO7: An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- ILO8: An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- ILO9: An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- ILO10: An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction		In-class exercise	Lecture, Discussion	
2	Linear Algebra		In-class exercise, Quiz 1	Lecture, Discussion	
3	Data analysis		In-class exercise and Midterm exam	Lecture, Discussion	

4-5	Machine learning – Unsupervised learning algorithms		In-class exercise, Quiz 1	Lecture, Discussion	
6-9	Machine learning – Unsupervised learning algorithms, Midterm exam		In-class exercise and Midterm exam	Lecture, Discussion, Test	
10-12	Neural network		In-class exercise and Final exam	Lecture, Discussion	
13	Machine learning Issues		In-class exercise and Final exam	Lecture, Discussion	
14-16	Cases studies		Presentation	Discussion/ Presentations	
17	ML in industry		In-class exercise	Discussion/ Presentations	
18-19	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/ Quiz (30%)	In-class exercises + Quiz1 50%Pass	In-class exercises 50%Pass	In-class exercises 50%Pass
Midterm exam (30%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Date revised: May 25 2025

Ho Chi Minh City, May 25 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: LEADERSHIP

Course Code: BA098IU

1. General Information

Module designation	This course prepares students for leadership roles in the community and in their professions. It will provide students with the knowledge, skills, and foundation to become an effective leader. Students will develop an understanding of the components that make leadership successful. Students will gain both the theoretical and practical skills necessary for success in both their personal and professional lives. It is intended for students who are interested in gaining a foundation in leadership studies and extended coursework in applied aspects of Leadership.
Semester(s) in which the module is taught	8
Person responsible for the module	Dr. Nguyen, Hoai Nghia
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45 Private study including examination preparation, specified in hours ¹ : 90
Credit points	3

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the module	None																											
Module objectives/intended learning outcomes	This introductory course presents leadership using a personal leadership perspective and framework. Students taking this course will have the opportunity to examine their own views on leadership, explore the differences between personal and positional leadership, study characteristics of leaders and learn about the importance of personal development. Students who complete the course will be able to perform the following tasks: (1) Increase awareness of leadership and ways to get involved (2) Develop personal skills of leadership (3) Learn within teams (such skills as task assignment and management, conflict resolution and co-operation, consensus building, leadership, and effective communication) and Provide professional business presentations (both oral and written)																											
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Chapter 1: Who is A Leader?</td><td>1</td><td>I</td></tr><tr><td>Chapter 2: Leadership Traits and Ethics</td><td>1</td><td>T</td></tr><tr><td>Chapter 3: Leadership Behavior and Motivation</td><td>1</td><td>T</td></tr><tr><td>Chapter 4: Influencing: Power, Politics, Networking & Negotiation</td><td>2</td><td>T, U</td></tr><tr><td>Chapter 5: Contingency leadership Theory</td><td>1</td><td>T, U</td></tr><tr><td>Chapter 6: Communication, Coaching, and Conflict Skills</td><td>2</td><td>T</td></tr><tr><td>Chapter 7: Dynamic Relationship, Followership & Delegation</td><td>2</td><td>T, U</td></tr><tr><td>Chapter 8: Team Leadership</td><td>2</td><td>T</td></tr></table>	Topic	Weight	Level	Chapter 1: Who is A Leader?	1	I	Chapter 2: Leadership Traits and Ethics	1	T	Chapter 3: Leadership Behavior and Motivation	1	T	Chapter 4: Influencing: Power, Politics, Networking & Negotiation	2	T, U	Chapter 5: Contingency leadership Theory	1	T, U	Chapter 6: Communication, Coaching, and Conflict Skills	2	T	Chapter 7: Dynamic Relationship, Followership & Delegation	2	T, U	Chapter 8: Team Leadership	2	T
Topic	Weight	Level																										
Chapter 1: Who is A Leader?	1	I																										
Chapter 2: Leadership Traits and Ethics	1	T																										
Chapter 3: Leadership Behavior and Motivation	1	T																										
Chapter 4: Influencing: Power, Politics, Networking & Negotiation	2	T, U																										
Chapter 5: Contingency leadership Theory	1	T, U																										
Chapter 6: Communication, Coaching, and Conflict Skills	2	T																										
Chapter 7: Dynamic Relationship, Followership & Delegation	2	T, U																										
Chapter 8: Team Leadership	2	T																										

	Chapter 9: Leading Self-Managed Team	1	T
	Chapter 10: Charismatic and Transformational Leadership	1	T
	Chapter 11: Strategic Leadership and Managing Crises and Change	1	T
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbooks: [1] Leadership: Theory, Application and Skill Development (2nd Edition), Lussier & Achua References: [2] The Influencer, Kerry Patterson et al		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Increase awareness of leadership and ways to get involved
- (2) CLO2: Develop personal skills of leadership.
- (3) CLO2: Learn within teams (such skills as task assignment and management, conflict resolution and co-operation, consensus building, leadership, and effective communication) and Provide professional business presentations (both oral and written)

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x								
CLO2						x	x			
CLO3						x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including

technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.

- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Chapter 1: Who is A Leader? Leadership is Everyone's Business Levels of Analysis of Leadership Theory Leadership Theory Paradigm	1, 2	Quiz	Lecture Class discussion	
2	Chapter 2: Leadership Traits and Ethics Traits & Personality of Effective Leaders Leadership Attributes Ethical leadership	1, 2	Quiz	Lecture Class discussion	
3	Chapter 3: Leadership Behavior and Motivation	1, 2	Quiz Presentation	Lecture Class discussion	

Week	Topic	CLO	Assessments	Learning activities	Resources
	Leadership Behavior and styles The Leadership Grid				
4-5	Chapter 4: Influencing: Power, Politics, Networking & Negotiation Power & Source of Power Organizational Politics Networking Negotiation Ethics and Influencing	1, 2	Quiz Presentation	Lecture Class discussion	Contingency leadership
6	Chapter 5: Contingency leadership Theory Contingency Leadership Theory and Model Leadership Continuum Theory and Model Path Goal Leadership Theory and Model Normative Leadership and Model	1, 2, 3	Quiz Presentation	Lecture Class discussion	
7-8	Chapter 6: Communication, Coaching, and Conflict Skills Communication, Feedback & Coaching Managing Conflicts Collaborating Conflict Management Style Model	1, 2, 3	Quiz Presentation	Lecture Class discussion	
9	MIDTERM EXAM				
10-11	Chapter 7: Dynamic Relationship, Followership & Delegation Evolution of Dyadic Theory Leader-Member Exchange Theory Followership Delegation	1, 2, 3	Quiz Presentation	Lecture Class discussion	
12-13	Chapter 8: Team Leadership The use of Team in Organizations Characteristics of Effective Teams Team Creativity	1, 2, 3	Quiz Presentation	Lecture Class discussion	

Week	Topic	CLO	Assessments	Learning activities	Resources
	Decision Making in Team Meeting Leadership Skills				
14	Chapter 9: Leading Self-Managed Team Understanding Self-Management Team Growth Stages and Leadership The Changing Role of Leadership in Self-Managed Teams	1, 2, 3	Quiz Presentation	Lecture Class discussion	
15	Chapter 10: Charismatic and Transformational Leadership Charismatic Leadership Transformational Leadership Stewardship and Servant Leadership	1, 2, 3	Quiz Presentation	Lecture Class discussion	
16	Chapter 11: Strategic Leadership and Managing Crises and Change Strategic Leadership Crisis Leadership Leading Changes	1, 2, 3	Quiz Presentation	Lecture Class discussion	
17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (20%)	Qz1, Qz2, Qz3, Qz8, Qz9, Qz10 50%Pass	Qz4, Qz5 50%Pass	Qz6, Qz11 50%Pass
Homework exercises/ Presentation (20%)		Presentation 1 50%Pass	Presentation 1 50%Pass

Midterm exam (20%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 14, 2023

Ho Chi Minh City, May 14, 2023

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS
Course Name: Risk Management
Course Code: BA171IU

1. General information

Course designation	This course particularly provides fundamental knowledge regarding risk management for construction projects
Semester(s) in which the course is taught	7,8
Person responsible for the course	PhD. Ho Nhut Quang
Language	English
Relation to curriculum	Compulsory
Teaching methods	Student-centered approach
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 hours Contact hours (lecture): 45 Private study including examination preparation, specified in hours ¹ : 90
Credit points	3 Credits

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the course	N/A	
Course objectives	This course aims to provide students with the knowledge of risk management process; understanding of what risk is, how it can be measured and transferred, why individuals care about risk, and why corporations care about risk; techniques used in dealing with possible risk at work as well as in daily life; understanding characteristics of various types of insurance policies such as: Life Insurance, Health Insurance, Social Insurance, Property Insurance, Auto Insurance, etc.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Learn and apply the risk management process to two major areas of concern for corporations: liability risk and financial risk.
	Skill	CLO2. Understand techniques used in dealing with possible risk at work as well as in daily life, including Life Insurance, Health Insurance, Social Insurance, Property Insurance, Auto Insurance, etc.
	Attitude	CLO3. Develop an understanding of what risk is, how it can be measured and transferred, why individuals care about risk, and why corporations care about risk.
Content	This course is a study of the risk management process, with an emphasis on insurance. The course provides the learners with necessary knowledge on key concepts and terms used specially in Insurance Industry and Risks Management. The learners will learn possible methods and techniques used to deal with various kinds of risk. Policies including both Life-Insurance and Property and Casualty Insurance are analyzed. The learners will gain a deep understanding on Life Insurance, Health Insurance, Social Insurance, Property Insurance, Auto Insurance, etc. The course also mentions the job a Risk Manager and his/her functions at the company, which can pose a chance for some learners in choosing their career in future	
Examination forms	Essay exams	
Study and examination requirements	- Attend more than 80% of contact hours to be accepted to the final examination - Actively participate in class activities - Fulfill tasks given by instructor after class - Use their own laptop in class only for learning purpose - Read the textbook in advance - Access the course Blackboard for up-to-date information and material of the course, for online supports from	

Reading list	Textbooks and References [1] George E. Rejda, <i>Principles of Risk Management and Insurance</i> , 9 th edition – 2007, McGraw Hill.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-3) and Program/Student Learning Outcomes (SLO) (a -j) is shown in the following table:

CLO	Program Learning Outcomes									
	a	b	c	d	e	f	j	h	i	j
1		x			x					
2		x	x		x					
3			x		x					

Course learning outcomes

- **CLO1.** Learn and apply the risk management process to two major areas of concern for corporations: liability risk and financial risk.
- **CLO3.** Understand techniques used in dealing with possible risk at work as well as in daily life, including Life Insurance, Health Insurance, Social Insurance, Property Insurance, Auto Insurance, etc.
- **CLO2.** Develop an understanding of what risk is, how it can be measured and transferred, why individuals care about risk, and why corporations care about risk.

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking

appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
1	Chapter 1: Risk in Our Society	CLO1 CLO2	Lecture Class discussion	Assignment
2	Chapter 2: Insurance and Risk	CLO1 CLO2 CLO3	Lecture Class discussion	Assignment
3	Chapter 3: Introduction to Risk Management	CLO1 CLO2	Lecture Class discussion	Assignment
4	Chapter 4: Advanced Topics in Risk Management	CLO1 CLO2	Lecture Class discussion	Assignment
5	Chapter 5: Types of Insurers and Marketing System	CLO1 CLO2 CLO3	Lecture Class discussion	Assignment
6	Chapter 6: Insurance Company and Operations	CLO1 CLO2 CLO3	Lecture Class discussion	Assignment
7	Chapter 7: Financial Operations of Insurers	CLO1 CLO2 CLO3	Lecture Class discussion	Assignment
8	Chapter 8: Government Regulation of Insurance	CLO1 CLO2 CLO3	Lecture Class discussion	Assignment

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
9	Chapter 9: Fundamental Legal Principles	CLO1 CLO2	Lecture Class discussion	Assignment
10	Chapter 10: Analysis of Insurance Contracts	CLO1 CLO2 CLO3	Lecture Class discussion	Assignment
11-15	Group Presentation on the following topics: - Life Insurance (Chapters 11-13) - Individual Health Insurance (Chapter 15) - Retirement Plans (Chapter 17) - Social Insurance (Chapter 18) - Liability Risk (Chapter 19) - Homeowner Insurance (Chapters 20 and 21) - Auto Insurance (Chapter 23)	CLO1 CLO2 CLO3	Class discussion	Presentation

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
Progress Assessment (30%) • Attendance • Presentation • Quiz	x		
Midterm exam (30%)	x		x
Final exam (40%)	x	x	x

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

6. Date revised:



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: CONSTRUCTION PLANNING AND SCHEDULING

Course Code: CM303IU

1. General Information

Course name	CM303IU – Construction Planning and Scheduling CM303IU – Hoạch định tiến độ dự án
Module designation	This course is designed to provide students knowledge about time management for construction projects. The time management is one of the most crucial issues in construction management. Students are introduced functions of planning, different techniques of scheduling, i.e. bar charts, critical path method, PERT, ... and their applications. The applications and practices of Microsoft Project software are also provided in the course.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	5
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Compulsory

Teaching methods	Lecture, presentation, and assignments.																		
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90																		
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS																		
Number of periods	Theory: 45 Practice: 00																		
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM202IU - Construction Measurement and Cost Estimating																		
Module objectives/intended learning outcomes	Overall objectives Upon successful completion of this course, the students are expected to have knowledge of construction planning; planning methods; resource management; risk management. Students who complete the course will be able to perform the following tasks: (1) Understand planning process, activities, tools and techniques. (2) Be able to develop a project schedule using different techniques, tools, and MS Project software.																		
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Concept of planning</td><td>1</td><td>I</td></tr><tr><td>Bar charts</td><td>1</td><td>I</td></tr><tr><td>Critical path method</td><td>2</td><td>I</td></tr><tr><td>Resource management</td><td>1</td><td>T</td></tr><tr><td>Overlapping network models</td><td>3</td><td>T, U</td></tr></table>	Topic	Weight	Level	Concept of planning	1	I	Bar charts	1	I	Critical path method	2	I	Resource management	1	T	Overlapping network models	3	T, U
Topic	Weight	Level																	
Concept of planning	1	I																	
Bar charts	1	I																	
Critical path method	2	I																	
Resource management	1	T																	
Overlapping network models	3	T, U																	

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Critical chain scheduling method	1	T
	Risk and scheduling	1	T
	Program evaluation and review	1	T
	Microsoft Project software applications and practices	4	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Thomas E Uher, Programming and Scheduling Techniques, 2003, 1st edition. [2] Mubarak, S. A. (2019), Construction Project Scheduling and Control, Wiley, 4th Edition		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-2) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Understand planning process, activities, tools and techniques.
- (2) CLO2: Be able to develop a project schedule using different techniques, tools, and MS Project software.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		X	X							
CLO2			X		X	X				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research,

collect and interpret data based on the methods of academic research.

- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Concept of planning	1	Homework	Lecture Class discussion	[1] Chapter 1
2	Bar charts	2	Homework Quiz	Lecture Class discussion	[1] Chapter 2
3, 4	Critical path method	2	Quiz	Lecture Class discussion	[1] Chapter 3
5	Resource management	2	Presentation Quiz	Lecture Class discussion	[1] Chapter 4
6, 7, 8	Overlapping network models Midterm exam	2	Presentation Quiz Midterm exam	Lecture Class discussion Test	[1] Chapter 5
9	Critical chain scheduling method	2	Presentation Quiz	Lecture Class discussion	[1] Chapter 8
10	Risk and scheduling	2	Presentation Quiz	Lecture Class discussion	[1] Chapter 9
11	Program evaluation and review	2	Presentation Quiz	Lecture Class discussion	[1] Chapter 10
12-15	Microsoft Project software applications and practices	2	Presentation Quiz	Lecture Class discussion	[1] Chapter 11

Week	Topic	CLO	Assessments	Learning activities	Resources
16	Reservation week				
17-18	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/quizzes (10%)	Quiz 50%Pass	Quiz 50%Pass
Homework exercises/ Presentation (15%)		Presentation 50%Pass
Attendance (15%)	50%Pass	50%Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (40%)		50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

**Course Name: CONSTRUCTION PLANNING AND SCHEDULING
PROJECT**

Course Code: CM307IU

1. General Information

Course name	CM307IU – Construction Planning And Scheduling Project CM307IU – Đồ án hoạch định tiến độ dự án
Module designation	A practice construction project is carried out, including time management. Students are supposed to apply knowledge in the courses of construction planning and scheduling to schedule a construction project.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>Specialized knowledge</i> ☒ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐
Semester(s) in which the module is taught	6
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 67.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 30																		
Credit points	1 credit (Theory: 00 + Practice: 01) 2.45 ECTS																		
Number of periods	Theory: 00 Practice: 30																		
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM303IU - Construction Planning and Scheduling																		
Module objectives/intended learning outcomes	Overall objectives The objectives of this course are as follows: • To develop a capacity of planning and scheduling a construction project. • To enhance a careful, hard-working, serious, and scientific attitude in project scheduling. Students who complete the course will be able to perform the following tasks: (1) Develop a capacity of planning and scheduling (2) Enhance a careful, hard-working, serious, and scientific attitude																		
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (1 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Project requirements and criteria</td><td>1</td><td>I</td></tr><tr><td>Quantity measurement</td><td>2</td><td>T</td></tr><tr><td>Construction rate identification</td><td>2</td><td>T</td></tr><tr><td>Unit price identification</td><td>4</td><td>T</td></tr><tr><td>Scheduling</td><td>3</td><td>T</td></tr></table>	Topic	Weight	Level	Project requirements and criteria	1	I	Quantity measurement	2	T	Construction rate identification	2	T	Unit price identification	4	T	Scheduling	3	T
Topic	Weight	Level																	
Project requirements and criteria	1	I																	
Quantity measurement	2	T																	
Construction rate identification	2	T																	
Unit price identification	4	T																	
Scheduling	3	T																	

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Scheduling adjustment	2	T
	Oral exam	1	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Mubarak, S. A. (2019), Construction Project Scheduling and Control, Wiley, 4th Edition		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-2) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Develop a capacity of planning and scheduling
- (2) CLO2: To enhance a careful, hard-working, serious, and scientific attitude in project scheduling

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1			x		x					
CLO2					x	x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.

- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities
1	Project requirements and criteria	1	Attendance	Lecture
2 - 3	Quantity measurement	1, 2	Attendance Presentation	Oral
4	Unit price identification	1, 2	Attendance Presentation	Oral
5 – 6	Scheduling	1, 2	Attendance Presentation	Oral
7	Scheduling adjustment	1, 2	Attendance Presentation	Oral
8	Oral exam	1, 2	Defense	Exam

4. Assessment plan

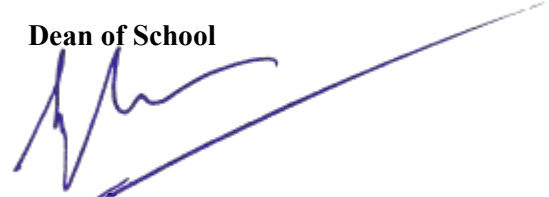
Assessment Type	CLO1	CLO2
Attendance / Progress report / Final report (70%)	50%Pass	50%Pass
Oral exam (30%)	50%Pass	50%Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke extending to the right.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: CONSTRUCTION MEASUREMENT AND COST ESTIMATING

Course Code: CM202IU

1. General Information

Course name	CM202IU – Construction Measurement And Cost Estimating CM202IU – Đo bóc khối lượng và ước tính chi phí
Module designation	In this course, students will study about quantity measurement and cost estimation. The measured quantity is used to estimate construction cost and developed procurement and contract documents.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	4
Person responsible for the module	Dr. Nguyen, Hoai Nghia
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90																	
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS																	
Number of periods	Theory: 45 Practice: 00																	
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: CE304IU Reinforced Concrete 1 - Previous course: CE210IU - Construction Material, CM205IU Introduction to Construction Management																	
Module objectives/intended learning outcomes	Overall objectives Upon successful completion of this course, the students should be able to demonstrate knowledge of: • Roles of quantity surveyors and construction industry. • Measurement and quantification. • Construction cost estimating. Students who complete the course will be able to perform the following tasks: (1) Understand roles of quantity surveyors and construction industry. (2) Be able to measure and quantify construction quantity (3) Be able to estimate construction																	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Quantity surveyors and construction industry</td><td>2</td><td>I</td></tr><tr><td>Measurement and quantification</td><td>6</td><td>T</td></tr><tr><td>Forecasting costs and value</td><td>4</td><td>T</td></tr><tr><td>Pricing and tendering</td><td>2</td><td>T, U</td></tr></table>			Topic	Weight	Level	Quantity surveyors and construction industry	2	I	Measurement and quantification	6	T	Forecasting costs and value	4	T	Pricing and tendering	2	T, U
Topic	Weight	Level																
Quantity surveyors and construction industry	2	I																
Measurement and quantification	6	T																
Forecasting costs and value	4	T																
Pricing and tendering	2	T, U																

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Related Vietnamese laws and regulations	1	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: ● Duncan Cartlidge, Quantity Surveyor's Pocket Book, 2022, Routledge, 4th edition. ● Peterson, S. and Dagostino, F. (2019). Estimating in Building Construction, Pearson, 9th Edition ● Parviz F. Rad, Project Estimating and Cost Management, 2002. ● Sean D.C. Ostrowski, Measurement Using the New Rules of Measurement, 2013, 1st		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Understand roles of quantity surveyors and construction industry
- (2) CLO2: Be able to measure and quantify construction quantity
- (3) CLO3: Be able to estimate construction

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x								
CLO2			x		x	x				
CLO3			x		x	x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.

- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1 - 2	Quantity surveyors and construction industry	1	Homework	Lecture Class discussion	[1] Chapter 1
3 - 8	Measurement and quantification Midterm exam	2	Quiz 1 - 4 Midterm exam	Lecture Class discussion Test	[1] Chapter 2
9 - 12	Forecasting costs and value	3	Quiz 5 - 7	Lecture Class discussion	[1] Chapter 3
13 – 14	Pricing and tendering	3	Homework Quiz 8	Lecture Class discussion	[1] Chapter 4
15	Related Vietnamese laws and regulations	3	Homework	Lecture Class discussion	
16	Reservation week				
17-18	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (25%)	50%Pass	Qz4, Qz5 50%Pass	50%Pass
Homework exercises/ Presentation (15%)		Presentation 50%Pass	Presentation 50%Pass
Midterm exam (20%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: Construction Measurement and Cost Estimating Project

Course Code: CM304IU

1. General Information

Course name	CM304IU – Construction Measurement and Cost Estimating Project CM304IU – Đồ án đo bóc khối lượng và ước tính chi phí
Module designation	In this course, a practice construction project is carried out, including volume measurement and cost estimating. Students are supposed to apply knowledge in the courses of construction measurement and cost estimating to measure volume and estimate cost of a construction project.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>Specialized knowledge</i> ☒ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐
Semester(s) in which the module is taught	5
Person responsible for the module	Dr. Nguyen, Hoai Nghia,
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 67.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 30																				
Credit points	1 credit (Theory: 00 + Practice: 01) 2.45 ECTS																				
Number of periods	Theory: 00 Practice: 30																				
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM202IU - Construction Measurement and Cost Estimating																				
Module objectives/intended learning outcomes	Overall objectives are to develop a capacity of measuring and estimating cost of a construction project. To enhance a careful, hard-working, serious, and scientific attitude in measuring and estimating cost.. Students who complete the course will be able to perform the following tasks: (1) Develop a capacity of measuring and estimating cost. (2) Enhance a careful, hard-working, serious, and scientific attitude.																				
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><td>Topic</td><td>Weight</td><td>Level</td></tr><tr><td>Project requirements and criteria</td><td>1</td><td>I</td></tr><tr><td>Volume measurement</td><td>6</td><td>T</td></tr><tr><td>Construction rate identification</td><td>3</td><td>T</td></tr><tr><td>Cost estimating</td><td>4</td><td>T, U</td></tr><tr><td>Oral exam</td><td>1</td><td>T, U</td></tr></table>			Topic	Weight	Level	Project requirements and criteria	1	I	Volume measurement	6	T	Construction rate identification	3	T	Cost estimating	4	T, U	Oral exam	1	T, U
Topic	Weight	Level																			
Project requirements and criteria	1	I																			
Volume measurement	6	T																			
Construction rate identification	3	T																			
Cost estimating	4	T, U																			
Oral exam	1	T, U																			
Examination forms	Constructed-response test																				

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.
Reading list	Textbook: • Duncan Cartlidge, Quantity Surveyor's Pocket Book, 2022, Routledge, 4th edition • Peterson, S. and Dagostino, F. (2019). Estimating in Building Construction, Pearson, 9th Edition References • Parviz F. Rad, Project Estimating and Cost Management, 2002. • Sean D.C. Ostrowski, Measurement Using the New Rules of Measurement, 2013, 1st edition.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Develop a capacity of measuring and estimating cost
- (2) CLO2: Enhance a careful, hard-working, serious, and scientific attitude

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1			x		x					
CLO2						x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management

performance.

- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Project requirements and criteria	1		Lecture	
2 – 4	Volume measurement	1, 2		Oral	
5	Construction rate identification	1, 2		Oral	
6 – 7	Cost estimating	1, 2		Oral	
8	Oral exam	1, 2		Exam	

4. Assessment plan

Assessment Type	CLO1	CLO2
Report/ Attendance (70%)	50%Pass	50%Pass
Oral (30%)		50%Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School

A handwritten signature in blue ink, consisting of stylized, flowing letters that appear to be 'H' and 'N'.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: CONSTRUCTION COST MANAGEMENT

Course Code: CM305IU

1. General Information

Course name	- <i>(in English): Construction Cost Management</i> - <i>(in Vietnamese): Quản lý chi phí xây dựng</i>
Course designation	CM305IU – CONSTRUCTION COST MANAGEMENT This course is designed to provide students knowledge about cost management for construction projects. The cost management is lasting from pre-contract, procurement, contract signing, post-contract periods to ensure the project budget based on the project scope and quality.
Course type	☐ General knowledge Fundamental ☐ X Specialized knowledge Internship/Project/Thesis Others: ☐ ☐
Semester(s) in which the module is taught	5
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135

	Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45 Private study including examination preparation, specified in hours¹: 90								
Credit points	3 credits (Theory: 45 + Practice: 0) 4.64 ECTS (<i>optional</i>)								
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM202IU - Construction Measurement and Cost Estimating								
Course objectives	Overall objectives Upon successful completion of this course, the students should be able to demonstrate knowledge of cost planning and budget setting; understanding requirements and clauses of construction contracts; and understanding cost management during the contract execution. Students who complete the course will be able to perform the following tasks: (1) Be able to plan construction project cost and set project budget (2) Understand requirements and clauses of construction contracts (3) Understand cost management during the contract execution								
Course learning outcomes	Upon the successful completion of this course students will be able to: <table border="1"> <thead> <tr> <th>Competency level</th><th>Course learning outcome (CLO)</th></tr> </thead> <tbody> <tr> <td>Knowledge</td><td> CLO2: Understand requirements and construction contracts CLO3: Understand cost management during execution </td></tr> <tr> <td>Skill</td><td>CLO1: Be able to plan construction project budget</td></tr> <tr> <td>Attitude</td><td>N/A</td></tr> </tbody> </table>	Competency level	Course learning outcome (CLO)	Knowledge	CLO2: Understand requirements and construction contracts CLO3: Understand cost management during execution	Skill	CLO1: Be able to plan construction project budget	Attitude	N/A
Competency level	Course learning outcome (CLO)								
Knowledge	CLO2: Understand requirements and construction contracts CLO3: Understand cost management during execution								
Skill	CLO1: Be able to plan construction project budget								
Attitude	N/A								
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize)								

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Topic	Weight	Level
	Practice procedures	1	I
	Pre-contract cost management	4	I
	Procurement systems	3	T, U
	Construction contracts Cost control	4	T, U
	Post-contract cost management	2	T, U
	Related Vietnamese laws and regulations	1	I
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Donald Towey, Cost Management of Construction Projects, 2013, 1st edition. [2] Parviz F. Rad, Project Estimating and Cost Management, 2002.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Be able to plan construction project cost and set project budget
- (2) CLO2: Understand requirements and clauses of construction contracts
- (3) CLO3: Understand cost management during the contract execution

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1			x	x	x	x				
CLO2		x	x							
CLO3		x	x							

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and

techniques for economic analysis.

- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Practice procedures	1	Homework	Lecture Class discussion	[1] Chapter 1
2, 3, 4, 5	Pre-contract cost management	1	Presentation 1, 2 Homework Quiz	Lecture Class discussion	[1] Chapter 2
6, 7, 8	Procurement systems Midterm Exam	2, 3	Presentation 3, 4 Quiz Test	Lecture Class discussion	[1] Chapter 3, 4
9,10, 11	Construction contracts Cost control	2, 3	Presentation 4, 5 Quiz	Lecture Class discussion	[1] Chapter 8

Week	Topic	CLO	Assessments	Learning activities	Resources
12,13	Post-contract cost management	2, 3	Homework Quiz	Lecture Class discussion	[1] Chapter 9
14,15	Related Vietnamese laws and regulations	2, 3	Quiz	Lecture Class discussion	[1] Chapter 10
16-17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
Quizzes (10%)	50%Pass	50%Pass	50%Pass
Presentation (15%)	50%Pass	50%Pass	50%Pass
Attendance (15%)	50%Pass	50%Pass	50%Pass
Midterm Exam (20%)	50%Pass	50%Pass	50%Pass
Final Exam (40%)	50%Pass	50%Pass	50%Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: xx/xx/2025

Ho Chi Minh City, xx/xx/2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: CONSTRUCTION PROCUREMENT AND TENDERING

Course Code: CM302IU

1. General Information

Course name	- <i>(in English): Construction Procurement and Tendering</i> - <i>(in Vietnamese): Đấu thầu và mua sắm</i>
Course designation	CM302IU – CONSTRUCTION PROCUREMENT AND TENDERING This course is designed to provide students knowledge about procurement methods in construction projects. The advantages and disadvantages, procedures, and application of different procurement methods are introduced. The preparation and invitation of tenders are also mentioned in this course.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>X Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	5
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (lecture): 45 Private study including examination preparation, specified in hours ¹ : 90		
Credit points	3 credits (Theory: 45 + Practice: 0) 4.64 ECTS (<i>optional</i>)		
Number of periods	Theory: 45 Practice: 0		
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM202IU - Construction Measurement and Cost Estimating		
Course objectives	Overall objectives Students who complete the course will be able to perform the following tasks: (1) Be able to brief the rights, duties and responsibilities of project team members (2) Understand different procurement methods (3) Understand tender preparation and invitation procedures		
Course learning outcomes	Upon the successful completion of this course students will be able to:		
	Competency level	Course learning outcome (CLO)	
	Knowledge	CLO3: Understand tender preparation and invitation procedures	
	Skill	CLO2: Understand different procurement methods	
	Attitude	CLO1: Be able to brief the rights, duties and responsibilities of project team members	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Briefing the project team	1	I
	Procurement methods	5	T, U

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Preparing for tenders	4	T, U
	Inviting tenders	4	T, U
	Negotiating and contract awarding		
	Related Vietnamese laws and regulations	1	I
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Mark Hackett and Gary Statham, The Aqua Group Guide to Procurement, Tendering and Contract Administration, 2016, 2nd edition. [2] Martin Brook, Estimating and Tendering for Construction Work, 2008, 4th edition. [3] Greenhalgh, B., Squires, G., and Mahamadu, A. (2021). Construction Procurement: Complex Property Development, Routledge, 1st edition		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Be able to brief the rights, duties and responsibilities of project team members
- (2) CLO2: Understand different procurement methods
- (3) CLO3: Understand tender preparation and invitation procedures

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x			x	x				
CLO2		x			x	x				
CLO3		x			x	x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.

- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Briefing the project team	1		Lecture Class discussion	[1] Chapter 1
2, 3, 4, 5, 6	Procurement methods	2	Quiz 1	Lecture Class discussion	[1] Chapter 2
7, 8	Preparing for tenders MIDTERM EXAM	3	Presentation 1, 2 Quiz MIDTERM EXAM	Lecture Class discussion Test	[1] Chapter 3, 4
9-10	Preparing for tenders	3	Presentation 3, 4 Quiz	Lecture Class discussion	[1] Chapter 8
11-14	Inviting tenders	3	Presentation 5, 6, 7	Lecture Class discussion	[1] Chapter 9

Week	Topic	CLO	Assessments	Learning activities	Resources
	Negotiating and contract awarding		Quiz		
15	Related Vietnamese laws and regulations	3	Quiz	Lecture Class discussion	[1] Chapter 10
	FINAL EXAM		Written exam		

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (10%)	50%Pass	50%Pass	50%Pass
Homework exercises/ Presentation (15%)			50%Pass
Attendance (15%)	50% Pass	50% Pass	50% Pass
Midterm exam (20%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: xx/xx/2025

Ho Chi Minh City, May 31, 2025

Dean of School

Dr. Nguyễn Hoài Nghĩa



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Building Information Management

Course Code: CM310IU

1. General information

Course name	- <i>(in English)</i> : Building Information Management - <i>(in Vietnamese)</i> : Hệ thống quản lý thông tin công trình
Course designation	Face to Face
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐ ☐
Semester(s) in which the course is taught	Semester V and/or Semester VI
Person responsible for the course	Dr Nguyễn Văn Tiếp Dr Nguyễn Bá Quang Vinh Dr Phạm Thanh Tùng Dr Trần Thanh Hà
Language	English
Relation to curriculum	Compulsory

Teaching methods	Student-centred approach	
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 150 hours Contact hours (lecture, in class discussions): 45 hours Private study including examination preparation, specified in hours ¹ : 105	
Credit points	03 credits (Theory: 03 + Practice: 00) 4.64 ECTS	
Number of periods	Theory: 45 Practice: 00	
Required and recommended prerequisites for joining the course	N/A	
Course objectives	The aim of the course is to provide students with the insight of Building Information Modeling and its development. The applications of BIM in different partnerships of construction industry are also provided.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. Have sufficient knowledge regarding BIM fundamentals and its historical development stages CLO2. Have acquired well-founded knowledge regarding applications of BIM with the involvements of stakeholders including owners, architects, engineers, contractors, subcontractors, and fabricators
	Skills	CL03. conduct construction management research, analyze and interpret BIM data, and use engineering judgments to draw conclusions

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	The course will provide students with knowledge in terms of characteristics of Building Information Modeling and its application in construction industry.
Examination forms	Quiz Presentation Multiple choice questions Case-based exams

Study and examination requirements

Requirements for successfully passing the module:

To pass this course, the students must:

Achieve a composite mark of at least 50; and

Make a satisfactory attempt at all process assessment tasks.

GRADING POLICY

Grades can be based on the following:

Assessment Component	Assessment form	Percentage %
A1. Process assessment	A1.1 Quiz	10
	A1.2 Presentation	10
	A1.3 Attendance	10
A2. Midterm assessment	A2.1 Mid-term exam	20
A3. Final assessment	A3.1 Final exam	50

COURSE POLICIES

Attendance

Regular and punctual attendance at lectures and seminars is expected in this course. University regulations indicate that if students attend less than eighty percent of scheduled classes, they may be refused final assessment. Exemptions may only be made on eligible medical grounds.

Workload

It is expected that the students will spend at least *six* hours per week studying this course. This time should be made up of reading, research, working on exercises and problems, and attending classes. In periods where they need to complete assignments or prepare for examinations, the workload may be greater.

Over-commitment has been a cause of failure for many students. They should take the required workload into account when planning how to balance study with part-time jobs and other activities.

General Conduct and Behaviour

The students are expected to conduct themselves with consideration and respect for the needs of fellow students and teaching staff. Conduct which unduly disrupts or interferes with a class, such as ringing or talking on mobile phones, is not acceptable and students will be asked to leave the class. The use of laptops is also encouraged during law lessons only to search for materials online. More information on student conduct is available on [the university webpage](#).

Keeping informed

The students should take note of all announcements made in lectures or on the course’s Blackboard, and another announced mean of communications. From time to time, the university will send important announcements to their university e-mail addresses without providing a

	paper copy. The students will be deemed to have received this information. Academic honesty and plagiarism Plagiarism is the presentation of the thoughts or work of another as one's own. Students are also reminded that careful time management is an important part of the study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting, and the proper referencing of sources in preparing all assessment items. The university regards plagiarism as a form of academic misconduct and has very strict rules regarding plagiarism. Special consideration Requests for special consideration (for final examination only) must be made to the Office of Academic Affairs within one week after the examination. General policy and information on special consideration can be found at the Office of Academic Affairs. Absence on the Mid-term is not allowed, or in special cases approved by Lecturer can be replaced with relevant Assignment. Meeting up with the lecturers after classes Students must make an appointment via emails if they want to meet up with the lecturer after classes and be on time. If there are any changes to the scheduled time, students must inform the lecturer immediately.
Reading list	Textbooks: 1. Eastman, C., Teicholz, P., Sacks, R., and Liston, K. (2011). A guide to Building Information Modeling for Owners, Managers, Designers, Engineers, and Contractors, 2nd ed. New Jersey: John Wiley & Sons. 2. Holzer, D. (2015). The BIM Manager's Handbook: Guidance for professionals in architecture, engineering, and construction. West Sussex: John Wiley & Sons. 3. BIM Handbook: A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers. Rafael Sacks, Chuck Eastman, Ghang Lee, Paul Teicholz. 2018. 3rd edition. Wiley. 978-1119287537. References: 1. Dzambazova, T, Krygiel, E., and Demchak, G. (2009). Introducing Revit Architecture 2010 – BIM for beginners. New Jersey: John Wiley & Sons.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-3) and Program/Student Learning Outcomes (SLO) (1 -10) is shown in the following table:

	SLO									
CLO	a	b	c	d	e	f	g	h	i	j
1			x		x					

2			x		x					
3					x					x

3. Planned learning activities and teaching methods

Week	Topics	Learning Outcome	Assessment	Teaching and learning activities	Resources
1-2	BIM introduction Introduction BIM: New Tools and New Processes What Is Not BIM Technology? What Are the Benefits of BIM? What Challenges Can Be Expected?	CL01		Lecture Class discussion	Lecture Room
3-5	BIM tools and parametric modeling The Evolution to Object-Based Parametric Modeling Parametric Modeling of Buildings Beyond Parametric Shapes BIM Environments, Platforms, and Tools Overview of the Major BIM Design Platforms BIM Platforms BIM model development steps	CL01, CL02	Quiz	Lecture Class discussion	Lecture Room
6-7	BIM for owners and facility managers BIM Application Areas for Owners BIM Tool Guide for Owners An Owner and Facility Manager's Building Model Leading the BIM Implementation on a Project	CL02, CL03	Quiz	Lecture Class discussion	Lecture Room
8-9	BIM for contractors BIM Processes to Develop a Contractor Building Information Model Reduction of Design Errors Using Clash Detection Quantity Takeoff and Cost Estimating	CL02, CL03	Quiz Presentation	Lecture Class discussion	Lecture Room

Week	Topics	Learning Outcome	Assessment	Teaching and learning activities	Resources
	Construction Analysis and Planning Integration with Cost and Schedule Control and Other Management Functions Practice of BIM for contractors Midterm exam		Midterm exam	Test	
10-14	BIM for architects and engineers Scope of Design Services BIM Use in Design Processes Building Object Models and Libraries Practice of BIM for architecture, structure, M&E	CL02, CL03	Quiz Presentation	Lecture Class discussion	Lecture Room
15	Related Vietnamese laws and regulations Reviews		Quiz	Lecture Class discussion	

4. Assessment plan

Assessment Type	CLO1	CLO2	CL03
In class evaluation (30%)	50% pass	50% pass	50% pass
Midterm examination (20%)	50% pass	50% pass	50% pass
Final examination (50%)	50% pass	50% pass	50% pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

N/A

6. Date revised: xx/xx/2025

Ho Chi Minh City, June 12, 2025
School of Civil Engineering and Management

(Signature)

Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Building Information Management Project

Course Code: CM312IU

1. General information

Course name	- <i>(in English)</i> : Building Information Management Project - <i>(in Vietnamese)</i> : Đồ án hệ thống quản lý thông tin công trình
Course designation	Face to Face and Self-Study
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>Specialized knowledge</i> ☒ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐ ☐
Semester(s) in which the course is taught	Semester V and/or Semester VI
Person responsible for the course	Dr Phạm Thanh Tùng Dr Nguyễn Văn Tiếp Dr Nguyễn Bá Quang Vinh Dr Trần Thanh Hà
Language	English
Relation to curriculum	Compulsory
Teaching methods	Independent research approach

Workload (incl. contact hours, self-study hours)	Total workload: 50 Contact hours (lecture and laboratory session): 15 Private study including examination preparation, specified in hours ¹ : 35	
Credit points	01 credits (Theory: 00 + Practice: 01) 2.45 ECTS	
Number of periods	Theory: 00 Practice: 30	
Required and recommended prerequisites for joining the course	- Prerequisites: - Corequisites: - Previous course: CM310IU - Building Information Management	
Course objectives	Students will study how to establish a BIM model and investigate its application for a construction project in practice.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. synthesize the BIM knowledge learnt CLO2. understand fundamental steps used for BIM modelling in practice
	Skill	CLO3. use specialized software; and apply tools and techniques for establishing a three-dimensional BIM model for a real case
	Attitude	CLO4. be proactive in carrying out independent research
Content	The course will provide essential skills for students on how to carry out fundamental steps for Building Information Modelling for a real project. Based on the knowledge learnt and skills, students understand the applicability of BIM models in the construction industry.	
Examination forms	Project Report	

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Study and examination requirements	Requirements for successfully passing the module: ● achieve a composite mark of at least 50 ● 80 % is compulsory for the class sessions ● 100% is compulsory for the laboratory sessions Special consideration Requests for special consideration (for final examination only) must be made to the Office of Academic Affairs within one week after the examination. General policy and information on special consideration can be found at the Office of Academic Affairs.
Reading list	Textbooks: 1. Allen, E. and Rand, P., 2016. Architectural detailing: function, constructibility, aesthetics. John Wiley & Sons. 2. Grondzik, W.T. and Kwok, A.G., 2019. <i>Mechanical and electrical equipment for buildings</i>. John Wiley & Sons. 3. BIM Handbook: A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers. Rafael Sacks, Chuck Eastman, Ghang Lee, Paul Teicholz. 2018. 3rd edition. Wiley. 978-1119287537. References: 1. Holzer, D. (2015). The BIM Manager's Handbook: Guidance for professionals in architecture, engineering, and construction. West Sussex: John Wiley & Sons. 2. Dzambazova, T, Krygiel, E., and Demchak, G. (2009). Introducing Revit Architecture 2010 – BIM for beginners. New Jersey: John Wiley & Sons.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program/Student Learning Outcomes (SLO) (a-j) is shown in the following table:

	SLO									
CLO	a	b	c	d	e	f	g	h	i	j
1			x							
2		x	x							
3					x	x				
4							x			

(*) Refer to ABET student outcomes

- An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- An ability to identify project objectives, scope and legal documents required as well as to be able to

evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.

- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessment	Learning activities	Resource
1	Project introduction Illustration of a BIM model development (architecture)	CLO1, CLO2	Attendance	Lecture	
2-3	Illustration of a BIM model development (architecture) cont.	CLO2	Attendance	Lecture	Software
4-6	Illustration of a BIM model development (structure) cont.	CLO2	Attendance	Lecture	Software
7-14	BIM model checking	CLO2, CLO3, CLO4	Attendance Presentation	Oral	
15	Oral exam	CLO1 CLO2 CLO3 CLO4	Defense	Exam	

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4
In class evaluation (50%)	50% pass	50% pass	50% pass	50% pass

Final examination (50%)	50% pass	50% pass	50% pass	50% pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

6. Date revised: xx/xx/2025

	<i>Ho Chi Minh City, May 31, 2025</i> <i>Head of Construction Management Department</i> <i>(Signature)</i>  <i>Nguyễn Hoài Nghĩa</i>



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name

Course Name: Construction Jobsite Management

Course Code: CM402IU

1. General Information

Course name	- (in English): Construction Jobsite Management - (in Vietnamese): <i>Quản lý thi công công trường</i>
Course designation	In this course, students will study roles, responsibilities, and authority of project participants. They also study how to manage project participants, material, safety, waste, and environment. The jobsite layout design and control are also a part of the course
Course type	☐ General knowledge <i>Fundamental</i> ☒ Specialized knowledge <i>Internship/Project/Thesis</i> ☐ Others: ☐ ☐
Semester(s) in which the module is taught	7 or 8
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong, Dr. Tran Thanh Ha
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135

	Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45 Private study including examination preparation, specified in hours ¹ : 90															
Credit points	03 credits (Theory: 03 + Practice: 00) 4.64 ECTS															
Number of periods	Theory: 45 Practice: 00															
Required and recommended prerequisites for joining the module	None															
Module objectives/intended learning outcomes	Overall objectives are to provide students with the insight of jobsite management including jobsite layout design and control; labor management, material management, safety management, waste management, and environment management; and meeting skills. Students who complete the course will be able to perform the following tasks: (1) Having knowledge of project participants’ roles, responsibilities, and authority (2) Having knowledge of designing and controlling jobsite (3) Having knowledge to manage labor, material, safety, waste, and environment on construction site															
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Construction project team</td><td>2</td><td>I</td></tr><tr><td>Jobsite layout and control</td><td>3</td><td>T</td></tr><tr><td>Meeting, negotiations, and dispute resolution</td><td>2</td><td>T</td></tr><tr><td>Jobsite labor relations and control</td><td>2</td><td>T, U</td></tr></table>	Topic	Weight	Level	Construction project team	2	I	Jobsite layout and control	3	T	Meeting, negotiations, and dispute resolution	2	T	Jobsite labor relations and control	2	T, U
Topic	Weight	Level														
Construction project team	2	I														
Jobsite layout and control	3	T														
Meeting, negotiations, and dispute resolution	2	T														
Jobsite labor relations and control	2	T, U														

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Material management	1	T, U
	Personnel and safety management	3	T, U
	Waste and environmental management and sustainable construction practices	2	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Construction Jobsite Management. William R. Mincks , Hal Johnston. 2016. 4th edition. Cengage Learning. 978-1305081796 [2] Thomas, H.R. and Ellis, R.D. Jr. (2017). <i>Construction Site Management and Labor Productivity Improvement</i> . Virginia: ASCE Press. [3] Construction Site Management and Labor Productivity Improvement: How to Improve the Bottom Line and Shorten the Project Schedule (Asce Press). H. Randolph Thomas , Ralph D. Ellis Jr. 2017. American Society of Civil Engineers. 978-0784414651 References: [1] Howarth, T. and Greenwood, D. (2018). <i>Construction Quality Management – Principle and Practice, 2nd ed.</i> New York: Routledge. [2] Fisk, E.R. and Reynolds, W.D. (2014). <i>Construction Project Administration, 10th ed.</i> New Jersey: Pearson		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: A deep understanding of project participants' roles, responsibilities, and authority
- (2) CLO2: An enhanced ability to design and control jobsite
- (3) CLO2: An enhanced ability to manage labor, material, safety, waste, and environment.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1	x	x		x	x					
CLO2	x	x		x	x					
CLO3	x			x	x					

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect, and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods**Theory**

Week	Topic	CLO	Assessment	Learning activities	Resources
1-2	Construction project team Roles, responsibilities, and authority of project participants Traditional contract project delivery system Construction management delivery system Design-Build delivery system	1	Quiz 1	Lecture Class discussion	[1] Chapter 1, 2
3-5	Jobsite layout and control Material Handling Labor productivity Equipment management	1, 2	Quiz 2 Presentation 1	Lecture Class discussion	[1] Chapter 6

Week	Topic	CLO	Assessment	Learning activities	Resources
	Site constraints Jobsite Security Organizing Jobsite layout				
6-7	Meeting, negotiations, and dispute resolution Partnering meeting and workshop session Contractor's preconstruction planning and organization meeting Project meeting Post project review and evaluation Negotiations Dispute resolution	1, 3	Quiz 3	Lecture Class discussion	[1] Chapter 7
8-9	Jobsite labor relations and control Labor productivity Jobsite labor organization Labor agreements Supervision and control of labor MIDTERM EXAM	1, 3	Quiz 4 Midterm exam	Lecture Class discussion Test	[1] Chapter 8
10	Material management Material management plans Material procurement Delivery and receiving Storing Distribution	1, 3	Presentation 2	Lecture Class discussion	[2] Chapter 6
11-13	Personnel and safety management Safety policy Accident prevention Substance abuse Personal protective equipment Hazardous materials communication Safety communication Accident reporting and investigation Environmental protection and safety	1, 3	Quiz 5	Lecture Class discussion	[1] Chapter 9
14-15	Waste and environmental management and sustainable construction practices	3	Quiz 6	Lecture Class discussion	[1] Chapter 13

Week	Topic	CLO	Assessment	Learning activities	Resources
	Jobsite environmental management plans Waste management in construction phase Storm water management Indoor air quality and requirements during construction				
16-17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (10%)	Qz1, Qz2, Qz3, Qz4, Qz5 50%Pass	Qz2 50%Pass	Qz3, Qz4, Qz5, Qz6, 50%Pass
Homework exercises/Presentation (20%)		Presentation 1 50%Pass	Presentation 2 50%Pass
Midterm exam (20%)	50% Pass	50% Pass	
Final exam (50%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: xx/xx/2025

Ho Chi Minh City, May 31, 2025

Dean of School of Civil Engineering and Management
(Signature)

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name

Course Name: Contract Management – FIDIC contracts

Course Code: CM404IU

1. General Information

Course name	CM404IU – Contract Management – FIDIC contracts CM404IU – Quản lý hợp đồng – Hợp đồng FIDIC
Module designation	In this course, students will study knowledge of construction contract management and the FIDIC contracts.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	7 or 8
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5

	Private study including examination preparation, specified in hours ¹ : 90																											
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS																											
Number of periods	Theory: 45 Practice: 00																											
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM302 - Construction Procurement and Tendering																											
Module objectives/intended learning outcomes	Overall objectives are to provide students with the insight of contract management and the FIDIC contracts’ contents. Students who complete the course will be able to perform the following tasks: (1) Having knowledge of contract management (2) Having knowledge of FIDIC contracts and its applications																											
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction to conditions of contract</td><td>1</td><td>I</td></tr><tr><td>Insurance and security</td><td>1</td><td>T</td></tr><tr><td>Administration of the contract</td><td>1</td><td>T, U</td></tr><tr><td>Defaults and disputes</td><td>1</td><td>T, U</td></tr><tr><td>Subcontracts</td><td>1</td><td>T, U</td></tr><tr><td>Change Orders and Variations</td><td>1</td><td>T, U</td></tr><tr><td>Delays and extensions</td><td>1</td><td>T, U</td></tr><tr><td>Interim valuations</td><td>1</td><td>T, U</td></tr></table>	Topic	Weight	Level	Introduction to conditions of contract	1	I	Insurance and security	1	T	Administration of the contract	1	T, U	Defaults and disputes	1	T, U	Subcontracts	1	T, U	Change Orders and Variations	1	T, U	Delays and extensions	1	T, U	Interim valuations	1	T, U
Topic	Weight	Level																										
Introduction to conditions of contract	1	I																										
Insurance and security	1	T																										
Administration of the contract	1	T, U																										
Defaults and disputes	1	T, U																										
Subcontracts	1	T, U																										
Change Orders and Variations	1	T, U																										
Delays and extensions	1	T, U																										
Interim valuations	1	T, U																										

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Completion of the project	1	T, U
	FIDIC contracts	5	T, U
	Related Vietnamese laws and regulations	1	T
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Goldfayl, G. (2011). Construction contract administration, 2 nd ed. Sydney: A UNSW press book. [2] FIDIC contracts. [3] A Practical Guide to Engineering, Procurement and Construction Contracts (Practical Construction Guides). Eric Eggink. 2020. 1st edition. Informa Law from Routledge. 978-0367344962 [4] The 2017 FIDIC Contracts. William Godwin. 2020. 1st edition. Wiley-Blackwell. 978-1119514633 References: [1] Murdoch, J. and Hughes W. (2000). Construction contracts – Law and management, 3 rd ed. London: Spon Press		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: A deep understanding of contract management
- (2) CLO2: A deep understanding of FIDIC contracts and its applications

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1	x		x	x						
CLO2	x		x	x			x			

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models,

digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.

- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect, and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Theory

Week	Topic	CLO	Assessment	Learning activities	Resources
1	Introduction to conditions of contract The contract Standard conditions of contract Definitions of contractual terms Contractual obligations The contract documents The works The site Quantities Schedules of rates Special conditions	1	Quiz 1	Lecture Class discussion	[1] Chapter 1
2	Insurance and security Insurance Security	1	Quiz 2	Lecture Class discussion	[1] Chapter 2

Week	Topic	CLO	Assessment	Learning activities	Resources
3	Administration of the contract Administration The works Progress and programming of the works Contract sum adjustments Notices	1	Quiz 3	Lecture Class discussion	[1] Chapter 3
4	Defaults and disputes Insolvency Default Termination Disputes	1	Quiz 4	Lecture Class discussion	[1] Chapter 4
5	Subcontracts Subcontracts Provisional sums Separate contracts Provisional quantities	1	Presentation 1	Lecture Class discussion	[1] Chapter 5
6	Change Orders and Variations Change orders Variations Procedures Valuations Errors in quantities	1	Quiz 5	Lecture Class discussion	[1] Chapter 6
7	Delays and extensions Extensions of time for delay Extensions and reductions of time for variations Delay or disruption costs Counting of days Force majeure	1	Quiz 6	Lecture Class discussion	[1] Chapter 7
8	Interim valuations Interim valuations Retention Payment of workers and subcontractors Rise and fall Midterm Exam	1	Quiz 7 Test	Lecture Class discussion	[1] Chapter 8
9	Completion of the project Practical completion Defects liability period	1	Quiz 8	Lecture Class discussion	[1] Chapter 9

Week	Topic	CLO	Assessment	Learning activities	Resources
	Final claim, certificate and payment				
10-14	FIDIC contracts Introduction and principle Types of FIDIC contracts Responsibilities of the main parties' clauses Management of projects clauses Tests on completion clauses Financial clauses and procedures clauses Suspension and termination clauses Risk, liability, and force majeure clauses Claims, disputes and arbitration clauses	2	Presentation 2	Lecture Class discussion	[2]
15	Related Vietnamese laws and regulations	2	Quiz 9	Lecture Class discussion	[2]
16-17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/quizzes (10%)	Qz1, Qz2, Qz3, Qz4, Qz5 Qz6, Qz7, Qz8 50%Pass	Qz9 50%Pass
Homework exercises/ Presentation (20%)	Presentation 1 50%Pass	Presentation 2 50%Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (50%)	50% Pass	50% Pass

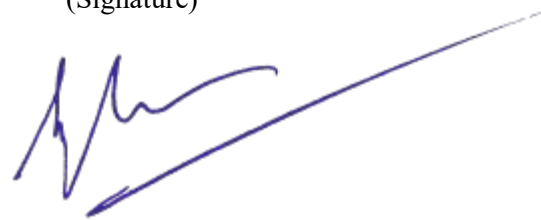
Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: xx/xx/2025

Ho Chi Minh City, xx/xx/2025

Dean of School of Civil Engineering and Management

(Signature)

A handwritten signature in blue ink, consisting of stylized, overlapping loops and a long, sweeping horizontal stroke extending to the right.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Reinforced Concrete 1

Course Code: **CE304IU**

1. General information

Course name	- <i>(in English) Reinforced concrete 1</i> - <i>(in Vietnamese) Bê tông cốt thép 1</i>
Module designation	CE304IU – Reinforced Concrete 1 Basic design concepts: basic layout of concrete structures, loading; Basic material properties: concrete and reinforcing steel; Analysis of structures: limit state design, simplification of framed structures, moment redistribution; Analysis and design of flexural members; Shear; Bond and anchorage; Serviceability; One-way and two-way slabs; Compression members; Foundation: footings. Current building code and standards are referred to extensively in this course. General concepts of oriented-programing toward designing Rc structures
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	5
Person responsible for the module	Assoc. Prof. Cao Thanh Ngoc Tran
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90														
Credit points	3 credits (Theory: 3 + Practice: 0) 4.64 ECTS (<i>optional</i>)														
Number of periods	Theory: 45 Practice: 0														
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CE209IU- Structural Analysis 1														
Module objectives/intended learning outcomes	Overall objectives are to equip CE students with knowledge about reinforced concrete structures Students who complete the course will be able to perform the following tasks: (1) Identify and calculate loadings to reinforced concrete structures. (2) Design reinforced concrete structures under ultimate and serviceability limit states. (3) Design and analyze the reinforced concrete members: beam, column, one-way and two-way slabs, footings.														
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction to reinforced concrete design</td><td>1</td><td>I</td></tr><tr><td>Design of singly-reinforced rectangular beams</td><td>2</td><td>T, U</td></tr><tr><td>Design of doubly-reinforced rectangular beams</td><td>2</td><td>T, U</td></tr></table>			Topic	Weight	Level	Introduction to reinforced concrete design	1	I	Design of singly-reinforced rectangular beams	2	T, U	Design of doubly-reinforced rectangular beams	2	T, U
Topic	Weight	Level													
Introduction to reinforced concrete design	1	I													
Design of singly-reinforced rectangular beams	2	T, U													
Design of doubly-reinforced rectangular beams	2	T, U													

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Moment redistribution	1	T, U
	Design for shear	1	T, U
	Bond of reinforcement	1	T, U
	Slabs	2	T, U
	Columns	2	T, U
	Footings	3	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Text book: [1] Mosley, W.H., Hulse, R. and Bungey, J.H., <i>"Reinforced Concrete Design to EuroCode 2"</i> , 6th edition, Macmillan, London, 2007 [2] Eurocode 2: Design of Concrete Structures – Part 1-1: General rules and rules for buildings		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: Identify and calculate loadings to reinforced concrete structures.
- (2) CLO2: Design reinforced concrete structures under ultimate and serviceability limit states.
- (3) CLO3: Design and analyze the reinforced concrete members: beam, column, one-way and two-way slabs, footings.

	PLO									
CLO	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	x		x					x		x
2	x		x					x		x
3	x		x					x		x

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.

- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to reinforced concrete design Properties of constituent materials Load combinations	1	Quiz 1	Lecture, Discussion	[1] Chapter 1,2,3
2, 3	Design of singly-reinforced rectangular beams	2	Quiz 1	Lecture, Discussion	[1] Chapter 4
4,5	Design of doubly-reinforced rectangular beams	2	Quiz 1	Lecture, Discussion	[1] Chapter 4
6	Moment redistribution	2	Quiz 1	Lecture, Discussion	[1] Chapter 3
7	Design for shear	2	Quiz 1	Lecture, Discussion	[1] Chapter 5

8-9-10	Bond of reinforcement. Curtailement of reinforcement Serviceability requirements in RC design. Quiz 1, Midterm exam	2	Quiz 1, Midterm exam	Lecture, Quiz 1, Test	[1] Chapter 5
11-12	One-way spanning slabs Two-way spanning slabs	3	Quiz 2	Lecture, Discussion	[1] Chapter 8
13, 14	Columns – behavior and classification, Moments and forces in columns, Axially loaded columns, Columns resisting uniaxial bending and biaxial bending, Construction of column interaction diagrams	3	Quiz 2	Lecture, Discussion	[1] Chapter 9
15, 16, 17	Footings – general considerations Design of axially loaded pad footing Eccentrically loaded pad footing Design of combined footing, Quiz 2	3	Quiz 2	Lecture, Discussion	[1] Chapter 10
18-19	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes/attendance (30%)	Quiz 1 60%Pass		Quiz 2 60%Pass
Midterm exam (20%)		50%Pass	
Final exam (50%)			50%Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 24, 2025

	Ho Chi Minh City, May 24, 2025 Dean of School of Civil Engineering and Management (Signature)

	 Dr. Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Construction Engineering

Course Code: **CE311IU**

1. General information

Course name	CE311IU – Construction Engineering CE311IU – Kỹ thuật thi công
Module designation	CE311IU – Construction Engineering This course is designed to provide students knowledge about construction engineering, including earthwork, foundation construction, wood construction, concrete construction, masonry construction, and steel construction.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	3
Person responsible for the module	Dr. Nguyen, Hoai Nghia
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5

	Private study including examination preparation, specified in hours ¹ : 90																		
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS																		
Number of periods	Theory: 45 Practice: 00																		
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CE304IU - Reinforced concrete 1																		
Module objectives/intended learning outcomes	Overall objectives are to equip CE students with knowledge about construction engineering, including earthwork, foundation construction, wood construction, concrete construction, masonry construction, and steel construction. Students who complete the course will be able to perform the following tasks: (1) Knowing the construction industry and its related matter (2) Caculating the earthwork volume and knowing earthwork construction methodology (3) Calculating the volume and knowing various construction methodology of various construction works such as: foundation, masonry, concrete works, ...																		
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction</td><td>1</td><td>I</td></tr><tr><td>Earthmoving materials and operation</td><td>2</td><td>T, U</td></tr><tr><td>Excavating and lifting</td><td>1</td><td>T, U</td></tr><tr><td>Loading and hauling</td><td>1</td><td>T, U</td></tr><tr><td>Compacting and finishing</td><td>1</td><td>T, U</td></tr></table>	Topic	Weight	Level	Introduction	1	I	Earthmoving materials and operation	2	T, U	Excavating and lifting	1	T, U	Loading and hauling	1	T, U	Compacting and finishing	1	T, U
Topic	Weight	Level																	
Introduction	1	I																	
Earthmoving materials and operation	2	T, U																	
Excavating and lifting	1	T, U																	
Loading and hauling	1	T, U																	
Compacting and finishing	1	T, U																	

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Foundation	1	T, U
	Wood construction	2	T, U
	Concrete construction	3	T
	Concrete from design	2	T, U
	Masonry construction	1	T, U
	Steel construction	1	T
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Text book: [1] S. W. Nunnally, (2014). <i>Construction Methods and Management</i> , Pearson, 8 th edition. [2] R. L. Peurifoy, C. J. Schexnayder, R. L. Schmitt, and A. Shapira. (2018). <i>Construction Planning, Equipment, and Methods</i> , McGraw-Hill Education 9 th edition.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-3) and Program/Student Learning Outcomes (SLO) (a -j) is shown in the following table:

CLO	SLO									
	a	b	c	d	e	f	g	h	i	j
1	x									
2			x		x					
3			x		x					

Program Learning Outcome:

- An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.

- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction	1	HW1	Lecture, Discussion, HW1	[1] Chapter 1
2, 3	Earthmoving materials and operation	2	HW2 and/or Quiz1	Lecture, HW2 and/or Quiz1	[1] Chapter 2
4	Excavating and lifting	2	Presentation HW3 and/or Quiz2	Lecture, HW3 and/or Quiz2	[1] Chapter 3
5	Loading and hauling	2	Presentation HW4 and/or Quiz3	Lecture, HW4 and/or Quiz3	[1] Chapter 4
6	Compacting and finishing	2	Presentation HW5 and/or Quiz4	Lecture, HW5 and/or Quiz4	[1] Chapter 5
7	Foundation	3	Quiz5	Lecture, Quiz5	[1] Chapter 10
8	Wood construction Midterm exam	3	Quiz6 Midterm exam	Lecture, Quiz6 Test	[1] Chapter 11
9-11	Concrete construction	3	Quiz7	Lecture, Quiz7	[1] Chapter 12

12, 13	Concrete from design	3	HW6	Lecture, HW6	[1] Chapter 13
14	Masonry construction	3	Quiz8	Lecture, Quiz8	[1] Chapter 14
15	Steel construction	3	Quiz9	Lecture, Quiz9	[1] Chapter 15
16	Reservation week				
17-18	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes/attendance (10%)		Qz1, Qz2, Qz3, Qz4 60%Pass	Qz5, Qz6, Qz7, Qz8, Qz9 60%Pass
Homework exercises/Presentation (20%)	HW1 50%Pass	HW2, HW3, HW4, HW5, 50% Pass Presentations 60% Pass	HW6 50% Pass
Midterm exam (20%)		Q1, Q2, Q3, Q4, Q5, Q6, Q7 50%Pass	
Final exam (50%)			Q1, Q2, Q3, Q4, Q5, Q6, Q7 50%Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School

(Signature)

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: ORGANIZATIONAL BEHAVIOR

Course Code: **BA130IU**

1. General information

Course designation	<i>The course is organized around three determinants of behavior in organizations: 1) individuals, 2) groups/teams, and 3) organizational structure. Particular emphasis will be placed on individual difference, attitude, motivation, job satisfaction, communication, leadership, stress, change, and organizational culture. Vigorous class discussions, presentations, cases, activities, along with group projects and self quizzes will provide the basis for the learning environment in the classroom.</i>
Semester(s) in which the course is taught	1, 2
Person responsible for the course	Mai Ngọc Khương Room: O1.306 Telephone: N/A E-mail: mnkhuong@hcmuii.edu.vn Consultation Hours: Fri, 1:00pm – 4:00 pm
Language	English

Relation to curriculum	Compulsory
Teaching methods	Lecture, lesson, group project
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: 135</i> <i>Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45</i> <i>Private study including examination preparation, specified in hours¹: 90</i>
Credit points	3
Required and recommended prerequisites for joining the course	None
Course objectives	After taking this class, the students should all be able: - To demonstrate an understanding of the effects that individuals and groups have on organizations, and apply that understanding to the solving organizational problems. - To demonstrate an understanding of the theories and concepts of individual, group and organizational behavior as they apply to organizational decision-making. - To apply concepts and theories about individual style and perception to solving organizational problems. - To apply theories of motivation to the management of organizations. - To use systematic problem-solving approaches in developing solutions to organizational problems. - To exhibit clear and concise written reports and oral presentations skills to communicate understanding and application of theories, topics and concepts. - To effectively participate individually, and as a member of small and large teams, in the completion of all course assignments.

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course learning outcomes	Students who complete the course will be able to perform the following tasks: (1) Analyzing how organization can use Organizational Behavior theories and practices to enhance the learning and cooperation within the organization. (2) Careful blending of theory and practice so that concepts and models of Organizational Behavior are applied in the real world to build better and effective organizations in the competitive business environment. (3) Thinking critically on how to manage the human side of the organization when not all behavior is entirely rational.

Content	This course is designed to give students the basic knowledge of human behavior in organizations and how to apply this knowledge to increase the organization effectiveness.
Examination forms	Multiple-choice questions
Study and examination requirements	In order to pass this course, the students must: – achieve a composite mark of at least 50; – attend at least 80 percent of the total sessions of the course; – make a satisfactory attempt at all assessment tasks (see below).
Reading list	<u>Text book</u> [1]• Robbins, S. P. and Judge, T. A. (2013), <i>Essentials of Organizational Behavior</i>, 12th edition, Pearson Education. <u>Reference book:</u> [2]• John W. Newstrom, (2014), <i>Organizational Behavior-Human Behavior at Work</i>, 14th Edition, International Edition, McGraw Hill. [3]• Hellrigel, D., Slocum, J., & Woodman (2010), <i>Organizational Behavior</i>, 13th edition, Thomson-South Western. – <u>Additional material</u> The instructor will provide his/her lecture notes and additional reading available on Blackboard. However this is not an automatic entitlement for students doing this subject. Note that this is not a distance-learning course, and the students are expected to attend lectures and take notes. This way, the students will get the additional benefit of class interaction and demonstration.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Analyzing how organization can use Organizational Behavior theories and practices to enhance the learning and cooperation within the organization.
- (2) CLO2: Careful blending of theory and practice so that concepts and models of Organizational Behavior are applied in the real world to build better and effective organizations in the competitive business environment.
- (3) CLO3: Thinking critically on how to manage the human side of the organization when not all behavior is entirely rational.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x								
CLO2		x								
CLO3						x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.

- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessment	Learning activities	Resource
1	Chapter 1: What is Organizational Behavior	1		Lecture	[1]
2	Chapter 2: Diversity in Organizations Chapter 3: Attitudes and Job Satisfaction	1	Group project1	Lecture	[1]
3	Chapter 4: Personality and Values	1, 2	Group project2	Lecture	[1]
4	Chapter 5: Perception and Individual Decision Making	1, 2	Group project3	Lecture	[1]
5	Chapter 6: Emotions and Moods	1, 2	Group project4	Lecture	[1]
6	Chapter 7: Motivation Concepts	2	Group project5	Lecture	[1]
7	Chapter 8: Motivation: From Concepts to Applications	3	Group project6	Lecture	[1]
8	Chapter 9: Foundations of Group Behavior		Group project7, Quiz1	Lecture	[1]
9	Mid-term exam				
10	Chapter 10: Understand Work Teams	1, 3	Group project8	Lecture	[1]

Commented [1]: cần ghi mid term (CLO 1,2,4) và final exam (CLO3,5,6)

11	Chapter 11: Power and Politics	1	Group project9	Lecture	[1]
12	Chapter 13: Leadership	1	Group project10	Lecture	[1]
13	Chapter 14: Foundations of Organization Structure	1	Group project11	Lecture	[1]
14	Chapter 15: Organizational Culture	3	Group project12	Lecture	[1]
15	Chapter 17: Organizational Change and Stress Management	1, 3	Group project13	Lecture	[1]
16	Chapter 18: Conflict and Negotiation	1	Group project14, Quiz2	Lecture	[1]
17	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (20%)	Qz1, Qz2, Qz3, Qz8, Qz9, Qz10 50%Pass	Qz4, Qz5 50%Pass	Qz6, Qz11 50%Pass
Homework exercises/ Presentation (10%)		Presentation 1 50%Pass	Presentation 1 50%Pass
Midterm exam (30%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

5. Date revised: May 14, 2023

Ho Chi Minh City, May 14, 2023

Dean of School

A handwritten signature in blue ink, consisting of stylized, flowing letters that appear to be 'H' and 'N'.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: BUSINESS COMPUTING SKILLS

Course Code: BA120IU

1. General information

Course designation	<i>This course is designed to combine knowledge of business and information technologies. It explores the breadth of Information and Communications Technology (ICT), including business hardware and software, professional computing ethics and behaviors as well as design information systems. Also, students will be familiar with computing terminology, the fundamentals of database management, presentation graphics and an introduction to data analysis. The course will prepare students to work in a variety of industries, including business administration, economics, finance, and accounting.</i>
Semester(s) in which the course is taught	2, 3
Person responsible for the course	Dr. Nguyen, Ngoc Truong Minh
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, Lesson, Practical Problems
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours: 45 (15 hours of lecture and 30 hours of exercise) Private study including examination preparation, specified in hours ¹ : 90
Credit points	03
Required and recommended prerequisites for joining the course	None
Course objectives	This course accentuates the abilities of computer systems and their applications in business. The course will provide a solid foundation of knowledge about skills that students must develop to effectively use computerized decision tools for typical business problems. Specific objectives include:

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	● explore basic relationships of computer products and concepts ● create MS Access objects, enter criteria into data, form expressions and create functions, and customize the appearance of forms and reports ● create document templates in MS Word that will help businesses streamline their correspondence, use mail merge, print mailing labels, templates, newsletters, and flyers ● analyse data with practical analysis of real business problems and streamline office tasks to present it in a way the managers can use ● acquire strong ability in using MS Excel software as tools in decision-making. This course will provide a complete learning in MS Excel.																																													
Course Learning Outcomes	Students who complete the course will be able to perform the following tasks: (1) Employ self-directed strategies to learn new features of software packages and other technology (2) Develop critical thinking skills in the use of information and communication technologies (ICT) and technical computer-based skills needed to prepare documents, presentations, and spreadsheets using Microsoft’s Office Suite Software (focusing on Excel, and Access). Use filing and schedule management skills to support management and supervisors																																													
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: Lecture Session (01 class)² Learning levels: I (Introduce); R (Teach); M (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction to Information Systems</td><td>1</td><td>I</td></tr><tr><td>Computer Hardware and Software</td><td>1</td><td>I</td></tr><tr><td>The Internet, Personal Email Account</td><td>1</td><td>I</td></tr><tr><td>MS Access – Creating Relational Tables</td><td>1</td><td>I, R</td></tr><tr><td>MS Access – Basic and Advanced Queries</td><td>1</td><td>I, R</td></tr><tr><td>MS Access – Forms and Reports Customization</td><td>1</td><td>I</td></tr><tr><td>MS Word – Creating Templates</td><td>1</td><td>I, R</td></tr><tr><td>MS Word – Mail Merge and Protecting Documents</td><td>1</td><td>I, R</td></tr><tr><td>MS Excel – Formulas and Functions</td><td>1</td><td>I, R</td></tr><tr><td>MS Excel – Charting</td><td>1</td><td>I, R</td></tr><tr><td>MS Excel – Pivoting Data (Table and Chart)</td><td>1</td><td>I, R</td></tr><tr><td>MS Excel – Sorting and Filtering</td><td>1</td><td>I, R</td></tr><tr><td>MS Excel – Data Validation, What-If Analysis</td><td>2</td><td>I, R</td></tr><tr><td>MS Excel – Introduction to VBA</td><td>1</td><td>I</td></tr></table>	Topic	Weight	Level	Introduction to Information Systems	1	I	Computer Hardware and Software	1	I	The Internet, Personal Email Account	1	I	MS Access – Creating Relational Tables	1	I, R	MS Access – Basic and Advanced Queries	1	I, R	MS Access – Forms and Reports Customization	1	I	MS Word – Creating Templates	1	I, R	MS Word – Mail Merge and Protecting Documents	1	I, R	MS Excel – Formulas and Functions	1	I, R	MS Excel – Charting	1	I, R	MS Excel – Pivoting Data (Table and Chart)	1	I, R	MS Excel – Sorting and Filtering	1	I, R	MS Excel – Data Validation, What-If Analysis	2	I, R	MS Excel – Introduction to VBA	1	I
Topic	Weight	Level																																												
Introduction to Information Systems	1	I																																												
Computer Hardware and Software	1	I																																												
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MS Excel – Data Validation, What-If Analysis	2	I, R																																												
MS Excel – Introduction to VBA	1	I																																												
Examination forms	Multiple-Choice Questions, Problem-Solving Questions																																													
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this course.																																													

Commented [1]: Learning level

Commented [2]: I,R,M

² Total: 15 classes; 1 class = 03 periods; 01 period = 50 minutes

Reading list	[1] James A. O'Brien, George Marakas (2017), Introduction to Information Systems, 12 th edition, Mc-Graw Hill. [2] Ron McFadyen (2021), Relational Databases and Microsoft Access 365. [3] Joan Lambert, Microsoft Word 2019 [4] Michael Alexander, Dick Kusleika (2019), Excel 2019 Bible, Wiley. [5] Hector Guerrero (2016), Excel Data Analysis Modeling and Simulation, Springer.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Employ self-directed strategies to learn new features of software packages and other technology
- (2) CLO2: Develop critical thinking skills in the use of information and communication technologies (ICT) and technical computer based skills needed to prepare documents, presentations, and spreadsheets using Microsoft's Office Suite Software (focusing on Excel, and Access).
- (3) CLO3: Use filing and schedule management skills to support management and supervisors

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1										x
CLO2		x				x				
CLO3		x			x					

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topics	CLOs	Assessments	Learning Activities	Resources
1	Introduction to Information Systems	1	In-class Ex.	Lecture, Discussion, Group Work	[1]
2	Computer Hardware and Software	1	In-class Ex.	Lecture, Discussion, Group Work	[1]
3	The Internet, Personal Email Account	1, 2	In-class Ex. Quiz 1	Lecture, Discussion	[1]
4	MS Access – Creating Relational Tables	1, 2	In-class Ex.	Lecture, Discussion	[2]
5	MS Access – Basic and Advanced Queries	1, 2	In-class Ex.	Lecture, Discussion	[2]
6	MS Access – Forms and Reports Customization	2	In-class Ex. Quiz 2	Lecture, Discussion	[2]
7	MS Word – Creating Templates		In-class Ex.	Lecture, Discussion	[3]
8	MS Word – Mail Merge and Protecting Documents	1, 3	In-class Ex. Quiz 3	Lecture, Discussion	[3]
9-10	Midterm				
11	MS Excel – Formulas and Functions	1	In-class Ex.	Lecture, Discussion	[4]
12	MS Excel – Charting	1	In-class Ex.	Lecture, Discussion	[4]
13	MS Excel – Pivoting Data (Table and Chart)	3	In-class Ex. Quiz 4	Lecture, Discussion	[4]
14	MS Excel – Sorting and Filtering	1	In-class Ex.	Lecture, Discussion	[4]
15	MS Excel – Data Validation, What-If Analysis	1	In-class Ex. Quiz 5	Lecture, Discussion	[4]

Commented [3]: CLO M:
70% of students get 70% or above in the quiz

16	MS Excel – Introduction to VBA	1, 2	In-class Ex.	Lecture, Discussion	[5]
17	Revision	1, 2		Review-Test	
18	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (20%)	Qz1, Qz2, Qz3, Qz8, Qz9, Qz10 50%Pass	Qz4, Qz5 50%Pass	Qz6, Qz11 50%Pass
Homework exercises/ Presentation (20%)		Presentation 1 50%Pass	Presentation 1 50%Pass
Midterm exam (20%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

Note: % Pass – Target that % of students having scores greater than 50 out of 100.

5. Date revised: May 14, 2023

Ho Chi Minh City, May 14, 2023

Dean of School

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: PROJECT COMMUNICATION MANAGEMENT

Course Code: CM405IU

1. General Information

Course name	- <i>(in English)</i> : Project Communication Management - <i>(in Vietnamese)</i> : <i>Quản lý thông tin dự án</i>
Course designation	CM405IU – PROJECT COMMUNICATION MANAGEMENT In this course, students will study the knowledge of project communication management and project document administration.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☒ <i>X Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	7
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Elective
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45

	Private study including examination preparation, specified in hours ¹ : 90		
Credit points	3 credits (Theory: 45 + Practice: 0) 4.64 ECTS (<i>optional</i>)		
Number of periods	Theory: 45 Practice: 0		
Required and recommended prerequisites for joining the module	None		
Course objectives	Overall objectives The aim of the course is to provide students with the insight of project communication management including the effective communication skills. The procedures to handle and record the project data and documents are also provided. Students who complete the course will be able to perform the following tasks: (1) A deep understanding of project communication management including the effective communication skills (2) A deep understanding of procedures to handle and record the project data and documents		
Course learning outcomes	Upon the successful completion of this course students will be able to:		
	Competency level	Course learning outcome (CLO)	
	Knowledge	CLO1: A deep understanding of project communication management including the effective communication skills	
	Skill	CLO2: A deep understanding of procedures to handle and record the project data and documents	
	Attitude	N/A	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Decentralization and project management	1	I

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Communicating to make space for participation	1	T
	Project leadership and communication	2	T
	Project Communications Management Planning	3	I
	Project Communications Management Executing	2	T, U
	Project Communications Management Monitoring and Control	2	T, U
	Use of construction documents on the jobsite	2	I
	Documentation and record keeping at the jobsite	2	I
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Communicating Project Management: A Participatory Rhetoric for Development Teams. Benjamin Lauren. 2018. 1st edition. Routledge. [2] Minks, W.R. and Johnston, H. (2017). Construction Jobsite Management, 4th ed. Boston: Cengage Learning. [3] Fisk, E.R. and Reynolds, W.D. (2014). Construction Project Administration, 10th ed. New Jersey: Pearson References: [1] Project Management Institute. (2016). Construction Extension to the PMBOK, 2nd ed. Pennsylvania: Project Management Institute [2] 2. Project Management Institute. (2003). Construction Extension to A guide to the PMBOK, 1st ed. Pennsylvania: Project Management Institute.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-2) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: A deep understanding of project communication management including the effective communication skills
- (2) CLO2: A deep understanding of procedures to handle and record the project data and documents

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x				x	x			
CLO2							x	x		

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities
1	Decentralization and project management Decentralization Decentralized Development Teams Decentralization and Development Methodologies Agile Development Lean Development How Decentralization Influences the Role of Project Manager Decentralized Project Communication	1	Quiz	Lecture Class discussion
2	Communicating to make space for participation Efficiency in Communicating Communicating Efficiency and Participation Participation Leads to Efficiency Theorizing Making Space Through Communication Extensions of Social Space Locating Agency in Participation	1	Quiz Presentation	Lecture Class discussion
3, 4	Project leadership and communication Communicating Leadership, Positionality, and Identity Leadership Values Teach Methods of Effective Collaboration Learn About Teams and Organizations Communicate to Include Be Responsible to the Team Empathize with People Keep People on Task Assign Roles to Individuals and Teams Communicate to Clarify the Goal Be Responsible to the Project Empathize to Motivate Action	1	Quiz Presentation	Lecture Class discussion
5, 6, 7	Project Communications Management Planning Communications Management Plan Project Documentation Assessment	2	Quiz	Lecture Class discussion

Week	Topic	CLO	Assessments	Learning activities
	Communications Skills Corporate Communication and Social Responsibility Communication Flow for Construction Change Orders, Requests for Information (RFIs), Instructions, and Variation Requests Daily Report Information and Communication Technology (ICT), Project Management Information System (PMIS)			
8	Project Communications Management Executing Managing Conflict Managing Meetings Project Documentation and Information Distribution Midterm Exam	2	Quiz Presentation Test	Lecture Class discussion
9	Project Communications Management Executing (continue) Project Documentation and Information Distribution	2	Quiz Presentation	Lecture Class discussion
10,11	Project Communications Management Monitoring and Control Performance and Progress Reports Other Reporting Systems Contractor Performance Evaluation (CPE)	2	Quiz Presentation	Lecture Class discussion
12,13	Use of construction documents on the jobsite The construction documents Use of the construction documents	2	Quiz	Lecture Class discussion
14,15	Documentation and record keeping at the jobsite Report types and content Cost documentation Correspondence Contractual requirement documentation Meeting minutes Shop drawings	2	Quiz	Lecture Class discussion

Week	Topic	CLO	Assessments	Learning activities
16,17	FINAL EXAM			

4. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/quizzes (10%)	50%Pass	50%Pass
Homework exercises/ Presentation (10%)	50%Pass	50%Pass
Attendance (10%)	50%Pass	50%Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (50%)		50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: xx/xx/2025

Ho Chi Minh City, xx/xx/2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
**School of Civil Engineering and Construction
Management**

COURSE SYLLABUS

Course Name

Course Name: CONSTRUCTION QUALITY MANAGEMENT

Course Code: CM406IU

1. General Information

Course name	- <i>(in English)</i> : Construction Quality Management - <i>(in Vietnamese)</i> : Quản lý chất lượng thi công
Course designation	CM406IU – CONSTRUCTION QUALITY MANAGEMENT In this course, students will study key theories of quality management and plans for quality assurance and control. Requirements of quality assurance and control during construction process are also mentioned.
Course type	☐ General knowledge ☐ Fundamental ☒ Specialized knowledge ☐ Internship/Project/Thesis ☐ Others:
Semester(s) in which the module is taught	7
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong, Dr. Tran Thanh Ha
Language	English
Relation to curriculum	Elective
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45

	Private study including examination preparation, specified in hours ¹ : 90																					
Credit points	03 credits (Theory: 03 + Practice: 00) 4.64 ECTS																					
Number of periods	Theory: 45 Practice: 00																					
Required and recommended prerequisites for joining the module	None																					
Module objectives/intended learning outcomes	Overall objectives The aim of the course is to equip students with knowledge of quality assurance and control (QAQC) planning and practices during construction period. Students who complete the course will be able to perform the following tasks: (1) A deep understanding of quality management theories (2) An enhanced ability to develop QAQC plans and to apply plans in practice																					
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>An overview of the key quality philosophy</td><td>2</td><td>I</td></tr><tr><td>Measuring project performance</td><td>2</td><td>I</td></tr><tr><td>Total Quality Management</td><td>2</td><td>T, U</td></tr><tr><td>Construction quality assurance and control program</td><td>2</td><td>T, U</td></tr><tr><td>Construction project quality management procedure</td><td>4</td><td>T, U</td></tr><tr><td>Quality management systems for health and safety in construction</td><td>2</td><td>T, U</td></tr></table>	Topic	Weight	Level	An overview of the key quality philosophy	2	I	Measuring project performance	2	I	Total Quality Management	2	T, U	Construction quality assurance and control program	2	T, U	Construction project quality management procedure	4	T, U	Quality management systems for health and safety in construction	2	T, U
Topic	Weight	Level																				
An overview of the key quality philosophy	2	I																				
Measuring project performance	2	I																				
Total Quality Management	2	T, U																				
Construction quality assurance and control program	2	T, U																				
Construction project quality management procedure	4	T, U																				
Quality management systems for health and safety in construction	2	T, U																				

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Related Vietnamese laws and regulations	1	I
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Howarth, T. and Greenwood, D. (2018). Construction Quality Management – Principle and Practice, 2nd ed.. New York: Routledge. References: [1] Minks, W.R. and Johnston, H. (2017). Construction Jobsite Management, 4th ed. Boston: Cengage Learning. [2] Thomas, H.R. and Ellis, R.D. Jr. (2017). Construction Site Management and Labor Productivity Improvement, Virginia: ASCE Press. [3] Fisk, E.R. and Reynolds, W.D. (2014). Construction Project Administration, 10th ed. New Jersey: Pearson.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-2) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: A deep understanding of quality management theories
- (2) CLO2: An enhanced ability to develop QAQC plans and to apply plans in practice

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x			x	x				
CLO2		x			x	x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.

- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1, 2	An overview of the key quality philosophy Defining quality Quality theories	1	Quiz	Lecture Class discussion	[1] Chapter 1
3, 4	Measuring project performance Developments of key performance indicators Construction KPI Benchmarking	1	Quiz	Lecture Class discussion	[1] Chapter 2
5, 6	Total Quality Management Purpose Procedure Continuous improvement Quality plan	1	Quiz Presentation	Lecture Class discussion	[1] Chapter 3, 4
7, 8	Construction quality assurance and control program Quality requirement Quality management system Quality assurance Quality control	2	Quiz Presentation	Lecture Class discussion	[1] Chapter 4

Week	Topic	CLO	Assessments	Learning activities	Resources
	QAQC and roles of construction project personnel MIDTERM EXAM		MIDTERM EXAM	Test	
9-12	Construction project quality management procedure Contract requirement Project stakeholder requirement Quality Policy QAQC plans Quality checklist Jobsite quality control team Testing and inspection QAQC before work execution QAQC during work execution QAQC after work execution Acceptance QAQC documents Related Vietnamese regulations	2	Quiz Presentation	Lecture Class discussion	[1] Chapter 8
13,14	Quality management systems for health and safety in construction Essential components of occupational health and safety management systems Benefit and problems associated with OHS management systems Health and safety management standards and guidance documents Developing an OHS management system	2	Quiz Presentation	Lecture Class discussion	[1] Chapter 9
15	Related Vietnamese laws and regulations	2	Quiz	Lecture Class discussion	[1] Chapter 10
	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/quizzes (10%)	50%Pass	50%Pass
Homework exercises/ Presentation (10%)	50%Pass	50%Pass
Attendance (10%)	50%Pass	50%Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (50%)		50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: 30/5/2025

Ho Chi Minh City, May 31, 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: PROJECT INTEGRATION MANAGEMENT

Course Code: CM407IU

1. General Information

Course name	- <i>(in English): Project Integration Management</i> - <i>(in Vietnamese): Quản lý tích hợp dự án</i>
Course designation	CM407IU – PROJECT INTEGRATION MANAGEMENT In this course, students will study the knowledge of project integration management throughout the project phases.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☒ <i>X Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	7
Person responsible for the module	Dr. Pham Thanh Tung
Language	English
Relation to curriculum	Elective
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture): 45

	Private study including examination preparation, specified in hours ¹ : 90		
Credit points	3 credits (Theory: 45 + Practice: 0) 4.64 ECTS (<i>optional</i>)		
Number of periods	Theory: 45 Practice: 0		
Required and recommended prerequisites for joining the module	None		
Course objectives	Overall objectives The aim of the course is to provide students with the holistic viewpoint of project integration management. Students are also provided with step by step of project integration management throughout project phases. Students who complete the course will be able to perform the following tasks: (1) A deep understanding of holistic viewpoint of project integration management (2) A deep understanding of procedures of project integration management throughout project phases.		
Course learning outcomes	Upon the successful completion of this course students will be able to:		
	Competency level	Course learning outcome (CLO)	
	Knowledge	CLO1: A deep understanding of holistic viewpoint of project integration management	
	Skill	CLO2: A deep understanding of procedures of project integration management throughout project phases.	
	Attitude	N/A	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Fundamentals	1	I

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Project charter	2	I
	Project management plans and documents	3	T
	Project requirement	1	T
	The scoping of projects	1	I
	Project work breakdown structure	1	T, U
	The directing and managing of the work performed in projects	1	T, U
	The monitoring and controlling of the work performed in projects	1	I
	The integrating and controlling of the changes occurring in projects	1	I
	The controlling and validating of the scope of projects	2	I
	The closing of a project/phase	1	I
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Sokowski, D.W. (2015). Mastering project management integration and scope. New Jersey: Pearson. [2] Mastering Project Management Integration and Scope: A Framework for Strategizing and Defining Project Objectives and Deliverables (Ft Press Project Management). Dietmar W. Sokowski. 2015. 1st edition. Ft Pr. References: [1] Project Management Institute. (2016). Construction Extension to the PMBOK, 2nd ed. Pennsylvania: Project Management Institute. [2] Project Management Institute. (2003). Construction Extension to A guide to the PMBOK, 1st ed. Pennsylvania: Project Management Institute.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-2) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: A deep understanding of holistic viewpoint of project integration management
- (2) CLO2: A deep understanding of procedures of project integration management throughout project phases.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x			x					
CLO2		x			x					

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities
1	Fundamentals The Holistic Viewpoint of Project Integration Management The PMBOK® View of Project Integration Management Some Fundamental Terms and Concepts	1	Quiz	Lecture Class discussion
2, 3	Project charter Project Charter—The Single Point of Reference (SPOR) for the Project Inputs to and Activity Tasks for Writing a Project Charter Project Stakeholders Enterprise Environmental Factor Considerations Project Service Provider Engagement The Output: The Project Charter	2	Quiz	Lecture Class discussion
4, 5, 6	Project management plans and documents Project Management Planning The Project Management Master Plan The Change Management Plan The Communications Management The Configuration Management Plan The Cost Baseline The Cost Management Plan The Human Resource Management Plan The Process Improvement Plan The Procurement Management Plan. The Quality Management Plan The Requirements Management Plan. The Risk Management Plan The Schedule Baseline The Schedule Management Plan The Scope Baseline The Scope Management Plan The Stakeholder Management Plan	2	Quiz Presentation	Lecture Class discussion
7	Project requirement Understanding Requirements Requirement Classification and Traceability Collecting and Documenting Requirements	2	Quiz Presentation	Lecture Class discussion

Week	Topic	CLO	Assessments	Learning activities
8	The scoping of projects The PMBOK® Process Define Scope The Holistic View of the scoping of Projects MIDTERM EXAM	2	Quiz EXAM	Lecture Class discussion EXAM
9	Project work breakdown structure The PMBOK® Process Create WBS The Making of a Work (or Scope) Breakdown Structure (WBS or SBS) A WBS Case in Point	2	Quiz Presentation	Lecture Class discussion
10	The directing and managing of the work performed in projects The PMBOK® Process Direct and Manage Project Work The Holistic View of Directing and Managing the Work Performed in Projects. Tools and Techniques Aspects of Managing and Leading the Execution of Projects From and For Practical Project Cases	2	Quiz Presentation	Lecture Class discussion
11	The monitoring and controlling of the work performed in projects The PMBOK® View of Monitoring and Controlling Project Work The Holistic View of Monitoring and Controlling Project Work From and for Practical Project Cases	2	Quiz	Lecture Class discussion
12	The integrating and controlling of the changes occurring in projects The PMBOK® Process Perform Integrated Change Control The Holistic View of Integrating and Controlling the Changes Occurring in Projects From and for Practical Project Cases	2	Quiz	Lecture Class discussion
13,14	The controlling and validating of the scope of projects The PMBOK® Processes to Validate and Control The Holistic View of the Controlling and Validating of the Scope of Projects From and for Practical Project Cases	2	Quiz	Lecture Class discussion

Week	Topic	CLO	Assessments	Learning activities
15	The closing of a project/phase The PMBOK® Process Close Project or Phase The Holistic View of the Closing of a Project or a Phase The Project Closure Acceptance Documentation (PCAD)	2	Quiz	Lecture Class discussion
16-17	FINAL EXAM			

4. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/ quizzes (10%)	50%Pass	50%Pass
Homework exercises /Presentation (10%)		50%Pass
Attendance (10%)	50% Pass	50% Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (50%)		50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: June 02, 2025

Ho Chi Minh City, June 02, 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: CONSTRUCTION FINANCIAL MANAGEMENT

Course Code: CM408IU

1. General Information

Course name	CM408IU – Construction Financial Management CM408IU – Quản lý tài chính xây dựng
Module designation	In this course, students will study the general knowledge of financial management including financial ratio, debt and equity, equity, assets, returns. Students also acquire knowledge management related to costs, cash flow and the tools for making financial decision.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	7
Person responsible for the module	Dr. Nguyen, Hoai Nghia, Dr. Nguyen, Van Tiep, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Elective
Teaching methods	Lecture, presentation, and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90		
Credit points	3 credits (Theory: 03 + Practice: 00) 4.64 ECTS		
Number of periods	Theory: 45 Practice: 00		
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CM305IU - Steel Structures		
Module objectives/intended learning outcomes	Overall objectives The aim of the course is to provide the general knowledge of financial management which applied to construction industry. The cost and profit management and technique applied to financial management are also provided. Students who complete the course will be able to perform the following tasks: (1) An understanding of general knowledge of financial and applications to the construction industry (2) An understanding of cost and profit management and technique applied to financial management		
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Construction financial management	1	I
	Analysis of financial statements	3	I
	Managing costs	2	T
	Managing general overhead costs	1	T
	Set profit margins for bidding	1	T

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Profit center analysis	1	T
	Cash flows for construction projects	1	T
	Cash flow for construction company	1	I
	Tools for making financial decisions	4	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] Construction Accounting and Financial Management. Steven Peterson. 2020. 4th edition. Pearson. [2] Cost Accounting and Financial Management for Construction Project Managers. Len Holm. 2018. 1st edition. Routledge. [3] Project Finance for Construction. Anthony Higham , Carl Bridge , Peter Farrell. 2016. 1st edition. Routledge. References: [1] Guenther, D. A. (2006). Financial reporting and analysis. New York: McGraw Hill. [2] Halpin, D.W. and Senior, B.A. (2009). Financial management and accounting fundamentals for construction. John Wiley and Sons.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-2) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: An understanding of general knowledge of financial and applications to the construction industry
- (2) CLO2: An understanding of cost and profit management and technique applied to financial management

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x			x					
CLO2		x			x	x				

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
1	Construction financial management What is financial management? Why is construction financial management different? Who is responsible for construction management? What does a financial manager do?	1	Lecture Class discussion	Quiz

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
2-4	Analysis of financial statements Depreciation and financial analysis Quick ratio Current ratio Current liabilities to net worth ratio Debt to equity ratio Fixed assets to net worth ratio Current assets to total assets ratio Collection period Average age of accounts payable Assets to revenues ratio Working capital turns Accounts payable to revenues ratio Gross profit margin General overhead ratio Profit margin Return on assets Return on equity Months in backlog	1	Lecture Class discussion	Quiz
5-6	Managing costs Monitoring and controlling construction costs Target levels for CPI and SPI Determining labor burden	2	Lecture Class discussion	Quiz Presentation
7	Managing general overhead costs What is general overhead? The general overhead budget Items to include in the general overhead budget Estimating general overhead Types of costs	2	Lecture Class discussion	Quiz Presentation
8	Set profit margins for bidding The profit equation Contribution margin Projecting break-even volume of work Projecting break-even contribution margin ratio Adjusting the financial mix Profit and overhead markup Midterm exam	1, 2	Lecture Class discussion Midterm exam	Quiz Presentation Test
9	Profit center analysis Sources of profit Allocation of general overhead Profit center analysis	2	Lecture Class discussion	Quiz Presentation
10	Cash flows for construction projects Cash flow for projects with progress payments	2	Lecture Class discussion	Quiz Presentation

Week	Content	Learning Outcome	Teaching and learning activities	Assessment
	Cash flow for projects with a single payment			
11	Cash flow for construction company Incorporating construction operations Incorporating general overhead Income taxes, interest, loan payments, and cash balance Determining the minimum monthly balance Fine-tuning, what-if, and sensitivity analysis	2	Lecture Class discussion	Quiz Presentation
12-15	Tools for making financial decisions Sunk costs MARR Adjusting life span Net present value Incremental net present value Future worth Annual equivalent Rate of return Incremental rate of return Capital recovery with return Payback period without interest Payback period with interest Project balance Noneconomic factors in decision making	2	Lecture Class discussion	Quiz Presentation
16	Reservation week			
17-18	FINAL EXAM			

4. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/quizzes (10%)	50%Pass	50%Pass
Homework exercises/ Presentation (10%)	50% Pass	50%Pass
Attendance (10%)	50% Pass	50% Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (50%)		50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School

A handwritten signature in blue ink, consisting of stylized, cursive letters.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: VALUE ENGINEERING

Course Code: **CM403IU**

1. General Information

Course name	- (in English): <i>Value Engineering</i> - (in Vietnamese): <i>Kỹ thuật giá trị</i>
Course designation	In this course, students will study about value engineering (VE) method that is a process to identify opportunities to remove unnecessary costs while assuring that quality, reliability, performance, and other critical factors will meet or exceed the customer's expectations.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>X Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	8
Person responsible for the module	Dr. Nguyen, Hoai Nghia
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 135 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 45

	Private study including examination preparation, specified in hours ¹ : 90																	
Credit points	3 credits (Theory: 45 + Practice: 0) 4.64 ECTS (<i>optional</i>)																	
Number of periods	Theory: 45 Practice: 0																	
Required and recommended prerequisites for joining the module	Previous course: CM305IU - Construction Cost Management																	
Course objectives	This course provides students with related knowledge of value engineering including project scope and budget; preparation of cost models; planning for value engineering services; function analysis; creativity and interpersonal skills; life cycle costing; risk assessment and analysis. Students who complete the course will be able to perform the following tasks: (1) Understand the objectives of value engineering (2) Understand project scope and budget (3) Be able to apply value engineering technique																	
Course learning outcomes	Upon the successful completion of this course students will be able to:																	
	Competency level	Course learning outcome (CLO)																
	Knowledge	CLO1: Understand the objectives of value engineering CLO2: Understand project scope and budget																
	Skill	CLO3: Be able to apply value engineering technique																
	Attitude																	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction</td><td>1</td><td>I</td></tr><tr><td>Project scope and budget</td><td>2</td><td>T</td></tr><tr><td>Preparation of cost model</td><td>2</td><td>T</td></tr><tr><td>Planning for VE services</td><td>2</td><td>T, U</td></tr></table>			Topic	Weight	Level	Introduction	1	I	Project scope and budget	2	T	Preparation of cost model	2	T	Planning for VE services	2	T, U
Topic	Weight	Level																
Introduction	1	I																
Project scope and budget	2	T																
Preparation of cost model	2	T																
Planning for VE services	2	T, U																

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Planning for VE services	1	T, U
	Creativity and interpersonal skills	1	T
	Life cycle costing	2	T, U
	Integrating VE into the construction industry	2	T
	VE applications to risk assessment and analysis	2	T
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: •Value Engineering: Practical Applications...for Design, Construction, Maintenance and Operations. Alphonse Dell'Isola. 1997. 1st edition. RSMears. 978-0876294635 •John Kelly, Steven Male, Value Management in Design and Construction, 2005, 1st edition. •Value Management of Construction Projects. John Kelly, Steven Male, Drummond Graham. 2014. 2nd edition. Wiley-Blackwell. 978-1118351239.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Understand the objectives of value engineering
- (2) CLO2: Understand project scope and budget
- (3) CLO3: Be able to apply value engineering technique

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x								
CLO2		x								
CLO3			x	x						

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.

- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction	1	Quiz	Lecture Class discussion	
2, 3	Project scope and budget	2	Presentation Quiz	Lecture Class discussion	
4, 5	Preparation of cost model Planning for VE services	1, 3	Presentation Quiz	Lecture Class discussion	
6, 7	Planning for VE services Function analysis	1, 3	Presentation Quiz	Lecture Class discussion	
8	Function analysis Midterm Exam	1, 3	Presentation Quiz Test	Lecture Class discussion	
9	Creativity and interpersonal skills	1, 3	Presentation Quiz	Lecture Class discussion	
10,11	Life cycle costing	1, 3	Presentation Quiz	Lecture Class discussion	

Week	Topic	CLO	Assessments	Learning activities	Resources
12,13	Integrating VE into the construction industry	1, 3	Presentation Quiz	Lecture Class discussion	
14,15	VE applications to risk assessment and analysis	1, 3	Presentation Quiz	Lecture Class discussion	
17	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (10%)	50%Pass	Qz4, Qz5 50%Pass	50%Pass
Homework exercises/ Presentation (30%)		Presentation 1 50%Pass	Presentation 1 50%Pass
Midterm exam (20%)	50% Pass	50% Pass	
Final exam (40%)		50% Pass	50% Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: xx/xx/2025

Ho Chi Minh City, xx/xx/2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



**VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY**
School of Business

COURSE SYLLABUS

Course Name: Business Communication

Course Code: BA006IU

1. General information

Course designation	<i>This course is designed to provide students with a strong foundation in communicating at the workplace, focusing on: (1) communicating in the digital-age workplace, (2) developing business writing skills, (3) embracing professionalism at work, (2) developing business presentation skills, (4) preparing for successful job search, resumes, cover letters, and job interviews.</i>
Semester(s) in which the course is taught	1, 2
Person responsible for the course	MSc. Pham Thanh Huyen
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, lesson, project, presentation.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Self-study includes examination preparation, specified in hours ¹ : 90
Credit points	3 credits/4.64 ECTS

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the course	None								
Course objectives	This course is designed to give students a comprehensive view of communication, its scope and importance in business, and the role of communication in establishing a favourable outside the firm environment, as well as an effective internal communications program. The various types of business communication media are covered. This course also develops an awareness of the importance of succinct written expression to modern business communication.								
Course learning outcomes	Upon the successful completion of this course students will be able to: <table border="1"> <thead> <tr> <th>Competency level</th><th>Course learning outcome (CLO)</th></tr> </thead> <tbody> <tr> <td>Knowledge</td><td> CLO1. Identify the role and process of communication as a means of achieving organizational objectives. CLO2. Define communication and explain communication barriers. CLO3. Identify the different types of writing performed by business professionals in each of the various functional areas of business. </td></tr> <tr> <td>Skill</td><td> CLO4. Strengthen perception skills by embracing professionalism; by recognizing nonverbal responses; by improving listening skill; and by analyzing personal value systems; role and status, and cultural differences in organizational communication. CLO5. Apply a clear, concise, convincing, and correct style of writing for business purposes. CLO6. Complete an accurate, complete resume and cover letter. </td></tr> <tr> <td>Attitude</td><td> CLO7. Conduct well-prepared interviews and complete follow-up employment correspondence. CLO8. Demonstrate the ability to present effective oral reports. </td></tr> </tbody> </table>	Competency level	Course learning outcome (CLO)	Knowledge	CLO1. Identify the role and process of communication as a means of achieving organizational objectives. CLO2. Define communication and explain communication barriers. CLO3. Identify the different types of writing performed by business professionals in each of the various functional areas of business.	Skill	CLO4. Strengthen perception skills by embracing professionalism; by recognizing nonverbal responses; by improving listening skill; and by analyzing personal value systems; role and status, and cultural differences in organizational communication. CLO5. Apply a clear, concise, convincing, and correct style of writing for business purposes. CLO6. Complete an accurate, complete resume and cover letter.	Attitude	CLO7. Conduct well-prepared interviews and complete follow-up employment correspondence. CLO8. Demonstrate the ability to present effective oral reports.
Competency level	Course learning outcome (CLO)								
Knowledge	CLO1. Identify the role and process of communication as a means of achieving organizational objectives. CLO2. Define communication and explain communication barriers. CLO3. Identify the different types of writing performed by business professionals in each of the various functional areas of business.								
Skill	CLO4. Strengthen perception skills by embracing professionalism; by recognizing nonverbal responses; by improving listening skill; and by analyzing personal value systems; role and status, and cultural differences in organizational communication. CLO5. Apply a clear, concise, convincing, and correct style of writing for business purposes. CLO6. Complete an accurate, complete resume and cover letter.								
Attitude	CLO7. Conduct well-prepared interviews and complete follow-up employment correspondence. CLO8. Demonstrate the ability to present effective oral reports.								

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (3 hours)		
	Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Communicating in the Digital-Age Workplace	1	I
	Professionalism at Work: Business Etiquette, Ethics, Teamwork, and Meetings	1	T
	Business Presentations	1	T, U
	Planning Business Messages	0.5	I, T
	Organizing and Drafting Business Messages	0.5	I, T
	Revising Business Messages	0.5	I, T
	Short Workplace Messages and Digital Media	0.5	I, T
	Positive Messages	1	T, U
	Negative Messages	1	T, U
	Persuasive and Sales Messages	1	T, U
	Informal Reports	1	I, T
	Proposals and Formal Reports	1	I, T
The Job Search and Resumes in the Digital Age	1	T, U	
Interviewing and Following Up	1	T, U	
Examination forms	Short-answer questions, Messages writing questions		
Study and examination requirements	. Attend more than 80% of class meetings in order to take the final exam (Your name will be called randomly to answer questions during class discussion. If you do not show up to answer the question, you will be marked as absent for that class.) . Show respect to the instructor and classmates. . Actively participate in class activities . Fulfil tasks given by instructor after class . Access Blackboard for announcements, assignments, and materials of the course		
Reading list	Main textbooks: Mary Ellen Guffey & Dana Loewy, Essentials of Business Communication, 11th edition, Thompson South Western.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program Intended Learning Outcomes (ILO) (1-6) is shown in the following table:

CLO	ILO					
	1	2	3	4	5	6
1	x	x		x	x	
2	x	x			x	
3	x	x				
4	x	x	x	x		
5	x	x	x			
6				x	x	x
7				x		x
8	x	x			x	x

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Chapter 1: Communicating in the Digital-Age Workplace	1,2		Lecture	Textbook, Blackboard
2	Chapter 11: Professionalism at Work: Business Etiquette, Ethics, Teamwork, and Meetings	4	Assignment 1	Lecture	Textbook, Blackboard
3	Chapter 12: Business Presentations	8		Lecture	Textbook, Blackboard
4	Chapter 2: Planning Business Messages Chapter 3: Organizing and Drafting Business Messages	3, 5		Lecture	Textbook, Blackboard
5	Chapter 4: Revising Business Messages Chapter 5: Short Workplace Messages and Digital Media	3,5		Lecture	Textbook, Blackboard
6	Chapter 6: Positive Messages	3,5	Assignment 2	Lecture	Textbook, Blackboard
7	Chapter 7: Negative Messages	3,5		Lecture	Textbook, Blackboard
8	Midterm Review	1,2,3,4, 5,8	Presentation	Tutorial	
9	Midterm		Examination		
10	Chapter 8: Persuasive and Sales Messages	3,5	Assignment 3 Presentation	Lecture	Textbook, Blackboard

11	Chapter 9: Informal Reports	3,5	Presentation	Lecture	Textbook, Blackboard
12	Chapter 10: Proposals and Formal Reports	3,5	Presentation	Lecture	Textbook, Blackboard
13	Chapter 13: The Job Search and Resumes in the Digital Age	6	Presentation	Lecture	Textbook, Blackboard
14	Chapter 14: Interviewing and Following Up	7	Presentation	Lecture	Textbook, Blackboard
15	Group Presentation	1,2,4,8	Presentation		
16	Group Presentation	1,2,4,8	Presentation		
17	Final exam		Examination		

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	CLO5	CLO6	CLO7	CLO8
Assignments (50%)	A1 70%Pass	A1 70%Pass	A2 70%Pass	A3 70%Pass	A2, 3 70%Pass	A1 70%Pass		Presentation 70%Pass
Midterm exam (20%)	Q1 60%Pass	Q1 60%Pass	Q3 60%Pass	Q2 60%Pass	Q3 60%Pass			
Final exam (30%)				Q1 60%Pass	Q3 60%Pass	Q2 60%Pass	Q2 60%Pass	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics (optional)

6. Date revised: July 12, 2022

Ho Chi Minh City, dd/mm/yyyy
Head/Dean of Department/School
(Signature)

<Full Name>



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
**School of Civil Engineering and Construction
Management**

COURSE SYLLABUS

Course Name

Course Name: FUNDAMENTALS OF FINANCIAL MANAGEMENT

Course Code: **BA016IU**

1. General information

Course designation	<i>BA016IU– Fundamentals of Financial Management</i> provides students with basic concepts of financial management. The course is provided based on foundation knowledge of financial accounting and economics. This course may fulfill requirements of the curriculum for students majoring in business administration in general; however, it is the foundation for students majoring in finance, banking and accounting. For those students that major in finance, banking and accounting, they can take higher level courses in finance after this course, to count for some, Corporate Finance, Financial Institutions and Market, Portfolio Theory and Investment Analysis, International Finance, Business Analysis and Valuation, etc.
Semester(s) in which the course is taught	1, 2
Person responsible for the course	Ms. Tien C. Nguyen
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, lesson, 2 class tests

<i>Workload (incl. contact hours, self-study hours)</i>	<i>(Estimated) Total workload:</i> <i>Contact hours (please specify whether lecture, exercise, laboratory session, etc.):</i> <i>Private study including examination preparation, specified in hours¹:</i>
Credit points	3
Required and recommended prerequisites for joining the course	Financial Accounting – BA184IU
Course objectives	The aim of this course is to expose students to and familiarize them with the theoretical frameworks and practical matters of financial management.. The learning experience will include: an introduction to financial management; time value of money; techniques of pricing of financial instruments such as bonds and stocks; evaluation of major projects; the relationship between risk and return; an introduction to Capital Asset Pricing Model (CAPM) and Portfolio theory; and cost of capital and capital structuring
Course learning outcomes	Students who complete the course will be able to perform the following tasks: (1) Explain the purpose, goals, and importance of financial management; Understand financial statements; the relationship between risk and return; time value of money; concepts regarding bonds, stocks, and investment projects; capital budgeting alternatives; the concept of cost of capital and capital structure (2) Calculate financial ratios and conduct company's basic financial analysis; convert financial time values; Value bonds, stocks, and investment projects; evaluate capital budgeting alternatives, using the firm's cost of capital in conjunction with internal rate of return and net present value techniques; compute cost of capital and capital structure.
Content	
Examination forms	Multiple-choice questions, short-answer questions, application problems

¹ When calculating contact time, each contact hour is counted as a full hour because the organization of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Study and examination requirements	Attendance: Class Attendance is Mandatory. Roll will be taken by two quizzes' submissions at times of classes. University regulations indicate that if students attend less than eighty percent of scheduled classes they may be refused final assessment. Exemptions may only be made on medical grounds Assignments/Examination: Students must achieve a composite mark of at least 50; and make a satisfactory attempt at all assessment tasks.
Reading list	[1] Brealey, R.A., Myers, S.C. and Marcus, A.J., <i>Fundamentals of Corporate Finance</i>, 5th ed, McGraw Hill 2007 [2] Brigham, E. F. and Houston, J. F. (2007), <i>Fundamentals of Financial Management</i>, 11th edn, South- Western [3] Ross, S. A., Westerfield, R. W., and Jordan, B. D. (2010) <i>Fundamentals of Corporate Finance</i> - 7th ed, McGraw Hill

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Explain the purpose, goals, and importance of financial management; Understand financial statements; the relationship between risk and return; time value of money; concepts regarding bonds, stocks, and investment projects; capital budgeting alternatives; the concept of cost of capital and capital structure
- (2) CLO2: Calculate financial ratios and conduct company's basic financial analysis; convert financial time values; Value bonds, stocks, and investment projects; evaluate capital budgeting alternatives, using the firm's cost of capital in conjunction with internal rate of return and net present value techniques; compute cost of capital and capital structure.

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x			x					
CLO2					x					

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.

- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to corporate finance Introduction Corporation Goals of the corporation Financial Decision Agency problems Working Capital Management Roles of Financial Manager Why corporations need financial markets? Functions of financial markets and intermediates				
2	Time Value of Money Basic concepts Timeline/ Future values (FV)/ Present values (PV)				

Commented [1]: Em đã điền cột topic theo syllabus form cũ, nhờ chị check giúp em cột week tại em thấy hơi sai sai, với 3 cột còn lại ạ

Commented [2]: update các cột

	Simple interest rate (SR)/ Compound interest rate(CR) Multiple cash flows Future value of Multiple Cash Flows Present value of Multiple Cash Flows Perpetuity cash flows Present Value of a Perpetuity Ordinary annuity cash flow/ Annuity due cash flow Future Value of an Annuity Present Value of an Annuity				
3	Time Value of Money (Cont.) Growing ordinary annuity cash flow/ Growing annuity due cash flow Future Value of an growing annuity Present Value of an growing annuity Mortgage loans Inflation and time value of money Real versus nominal cash flows Effective annual interest rates (EAR)				
4	Bonds and their evaluation Bond characteristics Bond evaluation Coupon bonds, semi-annual coupon bonds Zero-coupon bonds Bond yield Current yield Yield to maturity (YTM) Rate of return Relationship between market interest rate and bond price Bond premiums and bond discounts				

5	Stock and their evaluation Equity versus debt Common stocks Preferred stocks Book values, Liquidation values, and Market values Stock valuation: Dividend Discount Model (DDM) Zero growth common stocks Constant growth common stocks Differential growth common stocks Preferred stocks Growth stocks and Income stocks				
	Midterm				
6	Project Investment Criteria and Capital Budgeting Decision Capital budgeting decision Capital budgeting process Project classifications Net Present Value (NPV) method Internal Rate of Return (IRR) method Payback Period (PP)/ Discount Payback period (DPP) method Profitability Index (PI)				
7	Project Investment Criteria and Capital Budgeting (Cont.) Principles of identifying cash flows Calculating Cash Flows Capital investment Operating cash flows Investment in working capital Terminal-year incremental cash flow Minicase				

8	Introduction to Risk, Return and Opportunity Cost of Capital Introduction relationship between Risk and Return Historical overview of risk and return Rates of return Measuring risk Variance and standard deviation Risk and diversification Diversification Asset versus portfolio risk Variance and standard deviation of returns for a two- asset portfolio Unique risk versus market risk				
9	Risk, Return and capital budgeting Measuring market risk Concept of beta Portfolio betas Risk and return Capital Asset Pricing Model (CAPM) Security Market Line (SML) Capital budgeting and Project Risk				

10	Capital Structure and Cost of Capital Measuring capital structure Market versus book weight Cost of capital Cost of debt Cost of preferred stocks Cost of equity Cost of retained earning Weighted Average Cost of Capital (WACC) WACC and business evaluation				
11	Revision				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes (10%)	Qz1, Qz2, Qz3, Qz8, Qz9, Qz10 50%Pass	Qz4, Qz5 50%Pass	Qz6, Qz11 50%Pass
Homework exercises/ Presentation (20%)		Presentation 1 50%Pass	Presentation 1 50%Pass
Midterm exam (20%)	50% Pass	50% Pass	
Final exam (50%)		50% Pass	50% Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Date revised: May 14, 2023

Ho Chi Minh City, May 14, 2023

Dean of School

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
**School of Civil Engineering and Construction
Management**

COURSE SYLLABUS

Course Name

Course Name: QUALITY MANAGEMENT

Course Code: **BA018IU**

1. General information

Course designation	<i>This course introduces the principles of quality management, with emphasis on cross functional problem solving; providing a basic understanding of the philosophy, conceptual frameworks and the tools of the Total Quality Management.</i>
Semester(s) in which the course is taught	
Person responsible for the course	
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, Tutorial, Assignment, Case Analysis, Quizzes, Group Project
Workload (incl. contact hours, self-study hours)	<i>(Estimated) Total workload: Contact hours (please specify whether lecture, exercise, laboratory session, etc.): Private study including examination preparation, specified in hours¹:</i>
Credit points	3

¹ When calculating contact time, each contact hour is counted as a full hour because the organization of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the course	Production and Operations Management
Course objectives	Understanding of quality terminology and concepts Explaining the relationships of quality management and firm performance Identifying and analyzing organizational and environmental factors that drive quality improvement Understanding Total Quality Management concepts and apply quality control tools Implementation of Plan, Do, Study and Act Cycles Analyzing and evaluating a Define-Measure-Analyze-Improve-Control Project and applying it in practice
Course learning outcomes	Students who complete the course will be able to perform the following tasks: (1) Develop an appreciation of quality management theory, principles, and practices. and strategies for organizational change and transformation (2) Learn within teams (such skills as task assignment and management, conflict resolution and co-operation, consensus building, leadership, and effective communication) and Provide professional business presentations (both oral and written)
Content	Introduction to the principles of quality management, with an emphasis on cross-functional problem solving. This course will provide a basic understanding of the philosophy, conceptual frameworks and the tools of the Total Quality Management.
Examination forms	Multiple choice questions Case study exercises Open-ended questions/problems

Study and examination requirements	To pass this course, the students must: • Achieve a composite mark of at least 50; and • Make a satisfactory attempt at all assessment tasks (see below). COURSE POLICIES Attendance Regular and punctual attendance at lectures and seminars is expected in this course. University regulations indicate that if students attend less than eighty percent of scheduled classes they may be refused final assessment. Exemptions may only be made on eligible medical grounds. Workload It is expected that the students will spend at least <i>eight</i> hours per week studying this course. This time should be made up of reading, research, working on exercises and problems, and attending classes. In periods where they need to complete assignments or prepare for examinations, the workload may be greater. Over-commitment has been a cause of failure for many students. They should take the required workload into account when planning how to balance study with part-time jobs and other activities. General Conduct and Behaviour The students are expected to conduct themselves with consideration and respect for the needs of fellow students and teaching staff. Conduct which unduly disrupts or interferes with a class, such as ringing or talking on mobile phones, is not acceptable and students will be asked to leave the class. The use of laptops is also encouraged during law lessons only to search for materials online. More information on student conduct is available on the university webpage. Keeping informed The students should take note of all announcements made in lectures or on the course's Blackboard, and another announced mean of communications. From time to time, the university will send important announcements to their university e-mail addresses without providing a paper copy. The students will be deemed to have received this information. Academic honesty and plagiarism Plagiarism is the presentation of the thoughts or work of another as one's own. Students are also reminded that careful time management is an important part of the study and one of the identified causes of plagiarism is poor time management. Students should allow sufficient time for research, drafting, and the proper referencing of sources in preparing all assessment items. The university regards plagiarism as a form of academic misconduct and has very strict rules regarding plagiarism.

	Special consideration Requests for special consideration (for final examination only) must be made to the Office of Academic Affairs within one week after the examination. General policy and information on special consideration can be found at the Office of Academic Affairs. Absence on the Mid-term is not allowed, or in special cases approved by Lecturer can be replaced with relevant Assignment. Meeting up with the lecturers after classes Students must make an appointment via emails if they want to meet up with the lecturer after classes and be on time. If there are any changes to the scheduled time, students must inform the lecturer immediately.

Reading list	<u>Textbooks:</u> - Howard S. Gitlow et. al., Quality Management - 3rd edition, McGraw Hill, 2005. <u>Reference:</u> - Evans, Managing for quality and performance excellence -7th edition, Cengage Learning. - D.L. Goetsch and Stanley B. Davis, Quality Management- 5th edition, PrenticeHall, 2006.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Develop an appreciation of quality management theory, principles, and practices. and strategies for organizational change and transformation
- (2) CLO2: Learn within teams (such skills as task assignment and management, conflict resolution and co-operation, consensus building, leadership, and effective communication) and Provide professional business presentations (both oral and written)

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x								
CLO2						x		x		

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management

performance.

- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction to Quality Management Fundamentals of quality: process basics, types of quality, relationship between quality and cost and productivity.	1			
2	Why Total Quality Management (TQM) Definitions and basic principles How to realize TQM: three components of TQM, quality and global competitiveness, environment of today. Why Total Quality Management in a Knowledge-Based Economy? Students to form work groups Weekly Quiz	1			
3	Introducing the Three Pillars of TQM Quality Planning: Quality parameters- needs of customers and employees. Quality Control: Measuring and process analysis Quality Improvement & Problem Solving Method Weekly Quiz	1, 2			

Commented [1]: ghi rō essay, quiz.

4	Behavioral Component of TQM Establishing a quality culture, conditions for a successful TQM policy, increasing the quality of cooperation processes, TQM & the strategy of change, behavioral component Plan-Do-Study-Act Cycle Discussing Quality Improvement (QI) Story Weekly Quiz	1, 2				
5	Management components of TQM: Role of Top Management/ Task-oriented meetings. Roadmap to Business Excellence Barriers to Quality Management Role play Discussing Quality Improvement (QI) Story Weekly Quiz	1, 2				
6	Technical components of TQM Quality tools (pareto chart, check sheet, cause-and-effect diagram, histogram, scatter diagram, flow chart) Discussing Quality Improvement (QI) Story	1, 2				
7	Practice quality tools (pareto chart, check sheet, cause-and-effect diagram, histogram, scatter diagram, flow chart) Weekly Quiz	1, 2				
8	Midterm					
9	Process Diagnosis Process diagnosis: process variation Diagnostic tools: root-cause analysis, stratification Change concepts	1, 2				
10	Control charts Stabilizing and improving a process with control charts. Attribute control charts. Variables control charts How to read a control chart: 7 rules.					

	Weekly Quiz				
11	Practice control charts (various attribute and variables control charts) Weekly Quiz	1, 2			
12	Taguchi Loss Function Process Capability (process capability ratio and process capability index) Team Presentations Weekly Quiz	1, 2			
13	Six Sigma Quality Define-Measure-Analyze-Improve-Control (DMAIC) Approach Tools used in Define and Measure Phases Discussing DMAIC Case Team Presentations Weekly Quiz	2			
14	Six Sigma Quality Define-Measure-Analyze-Improve-Control (DMAIC) Approach Tools used in Analyze, Improve and Control Phases Discussing DMAIC Case Team Presentations Weekly Quiz	1			
15	Inspection Policy ISO Standards Course Review Team Presentations	1, 2			
16	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2
In-class exercises/quizzes (10%)	Qz1, Qz2, Qz3, Qz8, Qz9, Qz10 50%Pass	Qz4, Qz5 50%Pass
Homework exercises/Presentation (30%)		Presentation 1 50%Pass
Midterm exam (20%)	50% Pass	50% Pass
Final exam (40%)		50% Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

Commented [2]: pass rate của course
70% pass rate của ACBSP assessment.

5. Rubrics (optional) GRADING RUBRIC FOR WRITTEN COURSEWORK

MIDTERM EXAMINATION – Subject (ID subject)

Academic year: 2022 – 2023 (term ...)

Criteria	INADEQUATE 10% – 49%	ADEQUATE 50% - 59%	ABOVE AVERAGE 60% - 74%	EXEMPLARY ≥ 75%
Organisation and clarification	Does not organise ideas logically and with clarification. Limited evidence of coherence Ideas lack consistence	Generally organised logically, with evidence of progression Occasionally, there may be a lack of focus or ideas may be tangential	Clear organization and progression. Responds appropriately and relevantly, although some ideas are underdeveloped.	Response is focused, detailed and non-tangential. Shows a high degree of attention to logic and reasoning of points. Clearly leads the reader to the conclusion and stirs thought regarding the topic
Originality and usefulness of the analysis	Demonstrates an incomplete grasp of the task. There is no overall sense of creative coherence. Arguments are addressed incompletely.	Shows ability to identify legal issues, gather the facts and develop claims. Argument are addressed well but no links with evidence	Shows strong ability to identify legal issues, gather the facts and develop claims as well as link claims with evidence. Overall, an acceptable solution is offered and explained	Shows strong ability to identify legal issues, gather the facts and develop claims as well as link claims with evidence. Satisfactory solutions are offered and supported
Use of data/information	Shows little information from sources. Poor handling of sources	Shows moderate amount of source information incorporated. Some key points supported by sources. Quotations may be poorly integrated into paragraphs. Some possible problems with source citations	Draws upon sources to support most points. Some evidence may not support arguments or may appear where inappropriate. Quotations integrated well into paragraphs. Sources cited correctly	Draws upon primary and secondary source information in useful and illuminating ways to support key points. Excellent integration of quoted material into paragraphs. Source cited correctly
Use of frameworks	Shows limited ability to structure problems in correspondence to theoretical frameworks	Shows effort to link problems with the theoretical frameworks. There are still some mistakes	Shows ability to structure problems in correspondence to theoretical frameworks correctly. Minor mistakes in resolving problems	Shows ability to structure problems in correspondence to theoretical frameworks correctly. The problems are well resolved
Quality of arguments	Shows little attempt to offer support for key	Shows argument of poor quality.	Shows clear, relevant and logical arguments.	Shows identifiable, reasonable and sound arguments.

	claims or to relate evidence to analysis. The reasons offered are irrelevant.	Weak, undeveloped reasons are offered to support key claims		Clear reasons are offered to support key claims.

6. Date revised: May 14, 2023

Ho Chi Minh City, May 14, 2023
Dean of School

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

**Course Name: INTRODUCTION TO BUSINESS
ADMINISTRATION**

Course Code: BA115IU

1. General information

Course designation	<i>Employing the interactive learning and problem-based teaching approach, this course emphasises the interaction between lecturers and students. The lecture materials will be uploaded in Blackboard to help the students to preview the materials and to concentrate on listening and critical thinking during the lecture. This will help students to interact with the lecturer during the classroom. The sessions for presentations and discussions comprise company case studies as well as answering some theoretical and conceptual questions, which help the students to see how the concepts are applied in the real business context. Students will present the case to the class and discuss with the peers. Guest speakers are invited to talk about selected topics or real life experiences.</i>
Semester(s) in which the course is taught	7, 8
Person responsible for the course	
Language	English
Relation to curriculum	<i>Elective</i>
Teaching methods	Lecture, discussion, and assignments.

Workload (incl. contact hours, self-study hours)	Total workload: 127.5 (Estimated) Contact hours: - lecture: 28.5 - Discussion: 9 Private study including examination preparation, specified in hours¹: 90
Credit points	3 credits/4.64ECTS
Required and recommended prerequisites for joining the course	No
Course objectives	<i>This course is designed to provide the student with the below objectives</i> - To provide knowledge of functional areas of business management and the integration among them. - To give students a strong awareness of global issues, including an understanding of approaches to business ethics, business environment and multinational issues. - To develop students' basic research, analysis, writing, teaming, and presentation skills. - To develop students' applied critical thinking skills and communication through the development of a portfolio of a firm in an industry in which they are interested.

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1. <i>Explain how rapidly the business world is changing and the importance of life long learning.</i> CLO2. <i>Explain how global issues influence business entities.</i> CLO3. <i>Understanding forms of business of ownership.</i> CLO4. <i>Develop a high level of familiarity with four function of business management.</i> CLO5. <i>Understaing basic characteristic of production and operation management.</i> CLO6. <i>Explain theories about motivation.</i> CLO7. <i>Understanding basic characteristic of HRM in an organisation.</i> CLO8. <i>Understanding basic characteristic of marketing mix.</i>

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i>		
	Weight: lecture session (3 hours)		
	Teaching levels: I (Introduce); T (teach); U (Utilize)		
	Topic	Weight	Level
	Classification of structures Managing Within The Dynamic Business Environment	1	T, U
	How Economics Affects Business	1	T, U
	Choosing a Form of Business Ownership	1	T, U
	Management, Leadership, And Employee Empowerment	1	T, U
	Adapting Organizations To Today’s Markets	1	T, U
	Producing World-Class Goods and Services	1	T, U
	Motivating Employees And Building Self-Managed Teams	1	T, U
	HRM: Finding and Keeping the Best Employees	1	T, U
	Marketing: Building Customer Relationships	1	T, U
	Developing and Pricing Products and Services	1	T, U
Distributing Products Quickly and Efficiently	1	T, U	
Using Effective Promotional Techniques	1	T, U	
Examination forms	Constructed-response test		

Study and examination requirements	1. Attend more than 80% of contact hours in order to be accepted to the final examination 2. Actively participate in class activities. 3. Fulfill tasks given by instructor after class. 4. Use their own laptop in class only for learning purpose. 5. Read the textbook in advance. 6. Access the Blackboard for up-to-date information and material of the course, for online supports from teachers and other students and for practicing and assessment.
Reading list	Textbooks: [1] William G. Nickels, James M. McHugh, Susan M. McHugh – Understanding Business, 11th edition , McGraw-Hill

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-4) and Program Intended Learning Outcomes (ILO) (a-k) is shown in the following table:

	ILO										
CLO	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	x	x									x
2	x	x									x
3		x								x	x
4		x								x	x

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Managing Within The Dynamic Business Environment: Taking Risks And Making Profits	1, 2		Lecture, Discussion	[1] Chapter 1
2	How Economics Affects Business: the Creation and Distribution of Wealth	1, 2	Short essay 1	Lecture, Discussion	[1] Chapter 2
3	Choosing a Form of Business Ownership	3		Lecture, Discussion	[1] Chapter 5
4	Management, Leadership, And Employee Empowerment	4	Short essay 2	Lecture, Discussion	[1] Chapter 7
5	Adapting Organizations To Today's Markets	4		Lecture, Discussion	[1] Chapter 8
6	Review for midterm	1, 2, 3, 4, 5		Lecture, Discussion	

7-8	Midterm				
9	Producing World-Class Goods and Services	5		Lecture, Discussion	[1] Chapter 9
10	Motivating Employees And Building Self-Managed Teams	6		Lecture, Discussion	[1] Chapter 10
11	HRM: Finding and Keeping the Best Employees	7		Lecture, Discussion	[1] Chapter 11
12	Marketing: Building Customer Relationships	8		Lecture, Discussion	[1] Chapter 13
13	Developing and Pricing Products and Services	8		Lecture, Discussion	[1] Chapter 14
14	Distributing Products Quickly and Efficiently	7		Lecture, Discussion	[1] Chapter 15
15	Using Effective Promotional Techniques	7		Lecture, Discussion	[1] Chapter 16
16	COURSE REVIEW	1-7		Lecture, Discussion	
17	GROUP PRESENTATION AND REPORT SUBMISSION	1-7			
18-19	Final exam				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3	CLO4	CLO5	CLO6	CLO7	CLO8
In-class exercises/quizzes/attendance (30%)	Essays 60%Pass	Essays 60%Pass	Report 60%Pass	Essays 60%Pass	Report 60%Pass	Report 60%Pass	Report 60%Pass	Report 60%Pass
Midterm exam (30%)			50%Pass		50%Pass	50%Pass	50%Pass	
Final exam (40%)	50%Pass	50%Pass	50%Pass	50%Pass	50%Pass	50%Pass	50%Pass	50%Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Date revised: 04/11/2022

	<i>Ho Chi Minh City, Dean of School of Civil Engineering and Management (Signature)</i> <i>Dr. Nguyen Hoai Nghia</i>



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

**Course Name: ADVANCED ARTIFICIAL INTELLIGENCE IN CIVIL
ENGINEERING AND CONSTRUCTION MANAGEMENT**

Course Code: CE412IU

1. General information

Course name	- <i>ADVANCED ARTIFICIAL INTELLIGENCE IN CIVIL ENGINEERING AND CONSTRUCTION MANAGEMENT</i> - <i>TRÍ TUỆ NHÂN TẠO NÂNG CAO TRONG KỸ THUẬT VÀ QUẢN LÝ XÂY DỰNG</i>
Course designation	<i>The objective of this course is to provide the students with the advanced information of machine learning (ML) and analysis tools with their applications in civil engineering (CE) and construction management (CM). The course will emphasize on 1) traditional supervised algorithms such as support vector machines, 2) ensemble machine learning algorithms including bagging and boosting, 3) deep learning algorithms such as convolution neural networks, 4) fundamentals of tools used to handle large-scale data, and 5) tools used to handle ML algorithms. Fundamentals of these algorithms and tools and their applications in different problems related to CE and CM will be covered along with a course project.</i>
Course type	☐ General knowledge ☐ Fundamental ☒ Specialized knowledge ☐ Internship/Project/Thesis ☐ Others:
Semester(s) in which the course is taught	
Person responsible for the course	<i>Nguyễn Bá Quang Vinh (PhD)</i>
Language	English
Relation to curriculum	Elective

Teaching methods	Lecture, presentation, discussion, and assignments								
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90								
Credit points	3 credits/ 4.64 ECTS								
Number of periods	Theory: 45 Practice: 0								
Required and recommended prerequisites for joining the course	Calculus, Mechanics of Material 1, Artificial Intelligence In Civil Engineering And Construction Management								
Course objectives	The aim of this course is to - Recognizing problems in CE and CM that AI can be applied. - Have the ability to formulate the problems. - Analyzing and solving the problems using AI tools. - Conducting case study to utilize AI for solving practical problems in CE or CM. - Evaluating the impacts and limitations of different schemes								
Course learning outcomes	Upon the successful completion of this course students will be able to: <table border="1"> <thead> <tr> <th>Competency level</th><th>Course learning outcome (CLO)</th></tr> </thead> <tbody> <tr> <td>Knowledge</td><td> CLO1. an ability to understand the basic concepts in the field. CLO2. an ability to apply mathematics and AI tools to solve CE and CM problems </td></tr> <tr> <td>Skill</td><td> CLO3. an ability to design and conduct experiments, to analyze and interpret CE and CM data, as well as to clean data to apply AI. CLO4. an ability to identify, formulate, and solve CE or CM problems by means of ML. </td></tr> <tr> <td>Attitude</td><td>CLO5. Work independently and professionally.</td></tr> </tbody> </table>	Competency level	Course learning outcome (CLO)	Knowledge	CLO1. an ability to understand the basic concepts in the field. CLO2. an ability to apply mathematics and AI tools to solve CE and CM problems	Skill	CLO3. an ability to design and conduct experiments, to analyze and interpret CE and CM data, as well as to clean data to apply AI. CLO4. an ability to identify, formulate, and solve CE or CM problems by means of ML.	Attitude	CLO5. Work independently and professionally.
Competency level	Course learning outcome (CLO)								
Knowledge	CLO1. an ability to understand the basic concepts in the field. CLO2. an ability to apply mathematics and AI tools to solve CE and CM problems								
Skill	CLO3. an ability to design and conduct experiments, to analyze and interpret CE and CM data, as well as to clean data to apply AI. CLO4. an ability to identify, formulate, and solve CE or CM problems by means of ML.								
Attitude	CLO5. Work independently and professionally.								

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Introduction	1	I
	Representations, measurements, data types	1	T, U
	Traditional supervised algorithms ML	2	T, U
	Ensemble learning	3	T, U
	Deep learning	4	T, U
	Case studies	1	T, U
	Course project	3	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have GPA more than 50/100 points overall to pass this course.		
Reading list	<u>Textbooks:</u> [1] Deep Learning, Ian Goodfellow, Yoshua Bengio, and Aaron Courville, The MIT Press, 2016 (free online: http://www.deeplearningbook.org/) [2] Hands-on Machine Learning with Scikit-Learn & Tensorflow, Aurelien Geron, O'Reilly, 2017. <u>Additional references:</u> [1] □ Hands-on Machine Learning with Scikit-Learn & Tensorflow, Aurelien Geron, O'Reilly, 2017.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-5) and Program Intended Learning Outcomes (ILO) (1-10) is shown in the following table:

	ILO									
CLO	1	2	3	4	5	6	7	8	9	10
1		x								
2		x			x					
3		x			x					
4					x					
5					x					

Program Intended Learning Outcome:

- ILO1: An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.

- ILO2: An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- ILO3: An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- ILO4: An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- ILO5: An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- ILO6: An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- ILO7: An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- ILO8: An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- ILO9: An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- ILO10: An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction: ML in modern CE and CM, Real-world application examples. Recapitulation of linear algebra required for ML	1,2,3,4, 5	Attendance Q&A Homework 1	Reading materials before class; Attending the lecture; Discussion;	[1] Chapter 1 [2] Chapter 1
2	Representations, measurements, data types: Tools for data exploratory analysis and correlation analysis	1,2,3,4, 5	Attendance Q&A Homework 2	Reading materials before class;	[2] Chapter 2

				Attending the lecture; Discussion;	
3	Traditional supervised algorithms ML: Concept and implement in Python: - Linear Regression - Logistic regression,	1,2,3,4,5	Attendance Q&A Homework 3	Reading materials before class; Attending the lecture; Discussion;	[2] Chapter 4
4	Traditional supervised algorithms ML (cont.): Concept and implement in Python: - Support vector machine, - Decision tree	1,2,3,4,5	Attendance Q&A Homework 4	Reading materials before class; Attending the lecture; Discussion;	[2] Chapter 5, 6
5	Ensemble learning: Concept and implement in Python of bagging model	1,2,3,4,5	Attendance Q&A Homework 5	Reading materials before class; Attending the lecture; Discussion;	[2] Chapter 7
6	Ensemble learning (cont.): Concept and implement in Python of boosting model	1,2,3,4,5	Attendance Q&A Homework 6	Reading materials before class; Attending the lecture; Discussion;	[2] Chapter 7
7	Ensemble learning (cont.): Concept and implement in Python of typical Ensemble Learning models	1,2,3,4,5	Attendance Q&A Homework 7	Reading materials before class; Attending the lecture; Discussion;	[2] Chapter 7
8-9	Deep learning: Concept and implement in Python of simple Artificial Neural Networks Midterm exam	1,2,3,4,5	Attendance Q&A Homework 8, Midterm exam	Reading materials before class; Attending the lecture; Discussion; Test	[1] Chapter 6
10-11	Deep learning (cont.): Concept and implement in Python of Multi-Layer Perceptron Neural Networks	1,2,3,4,5	Attendance Q&A Homework 11	Reading materials before class; Attending the lecture; Discussion;	[2] Chapter 11
12	Deep learning (cont.): Concept and implement in Python of Convolutional Neural Networks	1,2,3,4,5	Attendance Q&A Homework 12	Reading materials before class;	[2] Chapter 13

				Attending the lecture; Discussion;	
13	Deep learning (cont.): Concept and implement in Python of Recurrent Neural Networks	1,2,3,4,5	Attendance Q&A Homework 13	Reading materials before class; Attending the lecture; Discussion;	[2] Chapter 14
14	Case studies: Invited speaker for new application of ML and DL	1,2,3,4,5	Attendance Q&A Homework 14	Reading materials before class; Attending the lecture; Discussion;	
15	Course project	1,2,3,4,5	Attendance Q&A Presentation	Reading materials before class; Attending the lecture; Discussion;	
16	Course project (cont.)	1,2,3,4,5	Attendance Q&A Presentation	Reading materials before class; Attending the lecture; Discussion;	
17	Course project (cont.)	1,2,3,4,5	Attendance Q&A Presentation		
18	Final exam		Writing		

4. Assessment plan

- The type of assessment is grading based on exam questions. The range of scores is from 0 to 100.
- The final GPA of students is integrated from 3 components, including progress assessment, mid-term exam, and final exam. The contribution of each component (in percentage) is shown in the table below.

No	Assessment Type (%) contribute to GPA)	CLO1	CLO2	CLO3	CLO4	CLO5
1	Progress Assessment (PA, 40%)					
1.1	Class attendance (25% of PA)					Attended 80%Pass

1.2	In-class activity: Discussion and doing Quizzes in class (25% of PA)					Participated in class Q&A 60%Pass
1.3	Homeworks (50% of PA)			HW1-14, Submitted 80%Pass	HW1-14, Submitted 80%Pass	HW1-14, Submitted 80%Pass
2	Midterm exam (Mid, 30%)	Q1-5, 60%Pass	Q1-5, 60%Pass		Q1-5, 60%Pass	
3	Final exam (Fin, 30%)	Q1-5, 60%Pass	Q1-5, 60%Pass		Q1-5, 60%Pass	

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Date revised: May 24 2025

Ho Chi Minh City, May 24 2025
Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Reinforced Concrete 2

Course Code: **CE310IU**

1. General information

Course name	- <i>(in English) Reinforced concrete 2</i> - <i>(in Vietnamese) Bê tông cốt thép 2</i>
Module designation	CE310IU – Reinforced Concrete 2 Analysis and design of prestressed concrete members; beam; slabs. Analysis and design of composite slabs. Current building code and standards are referred to extensively in this course.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	6
Person responsible for the module	Assoc. Prof. Cao Thanh Ngoc Tran
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5

	Private study including examination preparation, specified in hours ¹ : 90																					
Credit points	3 credits (Theory: 3 + Practice: 0) 4.64 ECTS (<i>optional</i>)																					
Number of periods	Theory: 45 Practice: 0																					
Required and recommended prerequisites for joining the module	Reinforced Concrete 1 – CE304IU																					
Module objectives/intended learning outcomes	Overall objectives are to equip CE students with knowledge about prestressed concrete and composite structures Students who complete the course will be able to perform the following tasks: (1) Identify and calculate loadings to prestressed and composite structures. (2) Design prestressed and composite structures under ultimate, serviceability and transfer limit states. (3) Design and analyze the prestressed and composite members: simply supported beams, continuous beams and composite slabs																					
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Principles of prestressing</td><td>1</td><td>I</td></tr><tr><td>Design for the serviceability limit state</td><td>3</td><td>T, U</td></tr><tr><td>Prestress losses</td><td>2</td><td>T, U</td></tr><tr><td>Calculation of deflection, End blocks</td><td>1</td><td>T, U</td></tr><tr><td>Analysis and design at the ultimate limit state</td><td>1</td><td>T, U</td></tr><tr><td>Design of simply supported prestressed concrete beams</td><td>2</td><td>T, U</td></tr></table>	Topic	Weight	Level	Principles of prestressing	1	I	Design for the serviceability limit state	3	T, U	Prestress losses	2	T, U	Calculation of deflection, End blocks	1	T, U	Analysis and design at the ultimate limit state	1	T, U	Design of simply supported prestressed concrete beams	2	T, U
Topic	Weight	Level																				
Principles of prestressing	1	I																				
Design for the serviceability limit state	3	T, U																				
Prestress losses	2	T, U																				
Calculation of deflection, End blocks	1	T, U																				
Analysis and design at the ultimate limit state	1	T, U																				
Design of simply supported prestressed concrete beams	2	T, U																				

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Continuous members	2	T, U
	Introduction to composite structures	1	T, U
	Design of the steel beam for conditions during construction The composite section at the ultimate state: moment & shear	2	T, U
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Text book: [1] Hurst, M.K., <i>"Prestressed Concrete Design"</i> , 2nd edition. [2] Mosley, W.H., Hulse, R. and Bungey, J.H., <i>"Reinforced Concrete Design to EuroCode 2"</i> , 6th edition, Macmillan, London, 2007 [3] Eurocode 2: Design of Concrete Structures – Part 1-1: General rules and rules for buildings		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program Intended Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Identify and calculate loadings to prestressed and composite structures.
- (2) CLO2: Design prestressed and composite structures under ultimate, serviceability and transfer limit states.
- (3) CLO3: Design and analyze the prestressed and composite members: simply supported beams, continuous beams and composite slabs.

	PLO									
CLO	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	x		x					x		x
2	x		x					x		x
3	x		x					x		x

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and

techniques for economic analysis.

- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Principles of prestressing Methods of prestressing Analysis of concrete under working loads	1	Quiz 1	Lecture, Discussion	[1] Chapter 1,2,3
2, 3, 4	Design for the serviceability limit state ● Determination of minimum section properties ● Design of prestress force	2	Quiz 1	Lecture, Discussion	[1] Chapter 9

	• Stresses under the quasi-permanent loading • Magnel diagram construction • Design of tendon profiles • Width of cable zone				
5,6	Prestress losses	2	Quiz 1	Lecture, Discussion	[1] Chapter 4
7	Calculation of deflection, End blocks,	2	Quiz 1	Lecture, Discussion	[2] Chapter 11
8-9	Analysis and design at the ultimate limit state, Quiz 1, Midterm Exam	2	Quiz 1; Midterm exam	Lecture, Discussion; Test	[1] Chapter 8
10-12	Design of simply supported prestressed concrete beams	3	Quiz 2	Lecture, Discussion	[2] Chapter 11
13, 14	Continuous members	3	Quiz 2	Lecture, Discussion	[1] Chapter 11
15	Introduction to composite structures Design procedure for composite slab	3	Quiz 2	Lecture, Discussion	[2] Chapter 12
16, 17	Design of the steel beam for conditions during construction The composite section at the ultimate state: moment & shear. Quiz 2	3	Quiz 2	Lecture, Discussion	[2] Chapter 12
18-19	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes/attendance (30%)	Quiz 1 60%Pass		Quiz 2 60%Pass
Midterm exam (20%)		50%Pass	

Final exam (50%)			50%Pass

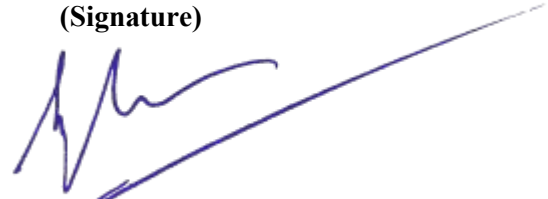
Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 24, 2025

Ho Chi Minh City, May 24, 2025

**Dean of School of Civil Engineering and
Management**

(Signature)



Dr. Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS
Course Name: Tall Buildings

Course Code: **CE407IU**

1. General information

Course name	- <i>(in English) Tall Buildings</i> - <i>(in Vietnamese) Nhà cao tầng</i>
Module designation	CE407IU – Tall Buildings The course aims at the development of ability for design of high-rise buildings. It offers the student with an opportunity to gain real life design experience, and to develop the ability to identify and solve civil engineering problems in a feasible and creative way, and to apply design procedures, codes of practice and computer software to design conventional steel and concrete high-rise buildings
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ ☒ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the module is taught	3
Person responsible for the module	Assoc. Prof. Cao Thanh Ngoc Tran and Dr. Nguyen Linh Khanh Pham
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture and assignments.

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (lecture, exercise, laboratory session, etc.): 37.5 Private study including examination preparation, specified in hours ¹ : 90																										
Credit points	3 credits (Theory: 3 + Practice: 0) 4.64 ECTS (<i>optional</i>)																										
Number of periods	Theory: 45 Practice: 0																										
Required and recommended prerequisites for joining the module	Reinforced Concrete 2 – CE310IU Foundation Engineering – CE309IU Foundation Project – CE402IU																										
Module objectives/intended learning outcomes	Overall objectives are to equip CE students with knowledge about the design of high-rise buildings. Students who complete the course will be able to perform the following tasks: (1) Identify and calculate lateral loadings to superstructures of tall buildings. (2) Calculate the lateral loading to each structural member. (3) Conduct basic calculations on various foundation designs and supporting structures																										
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Introduction</td><td>1</td><td>I</td></tr><tr><td>Wind Loadings</td><td>3</td><td>T, U</td></tr><tr><td>Earthquake Loadings</td><td>2</td><td>T, U</td></tr><tr><td>Lateral resistance systems</td><td>2</td><td>T, U</td></tr><tr><td>Sheet pile wall</td><td>1</td><td>T</td></tr><tr><td>Braced cut</td><td>1</td><td>T</td></tr><tr><td>Foundation design</td><td>2</td><td>T, U</td></tr></table>			Topic	Weight	Level	Introduction	1	I	Wind Loadings	3	T, U	Earthquake Loadings	2	T, U	Lateral resistance systems	2	T, U	Sheet pile wall	1	T	Braced cut	1	T	Foundation design	2	T, U
Topic	Weight	Level																									
Introduction	1	I																									
Wind Loadings	3	T, U																									
Earthquake Loadings	2	T, U																									
Lateral resistance systems	2	T, U																									
Sheet pile wall	1	T																									
Braced cut	1	T																									
Foundation design	2	T, U																									

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Foundation failure and Repair: Residential and Light Commercial Buildings	2	T
	Foundation failure and Repair: High rise and heavy construction	2	T
Examination forms	Constructed-response test		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Text book: [1] Taranath, B.S. 2012, Reinforced Concrete Design of Tall Buildings, CRC Press, Boca Raton, FL. [2] Das, B. M. (2015). Principles of Foundation Engineering (7th ed.). Cengage Learning [3] Brown, R. W. (2001). Practical foundation engineering handbook. McGraw-Hill Education		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program Intended Learning Outcomes (a-k) is shown in the following table:

- (1) CLO1: Identify and calculate lateral loadings to superstructures of tall buildings
- (2) CLO2: Calculate the lateral loading to each structural member.
- (3) CLO3: Conduct basic calculations on various foundation designs and supporting structures

	<i>PLO</i>									
<i>CLO</i>	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	x		x					x		x
2	x		x					x		x
3	x		x					x		x

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction

management for managing and controlling variety aspects of construction projects.

- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Introduction	1	Quiz 1	Lecture, Discussion	[1] Chapter 1
2, 3, 4	Wind Loadings • Static wind loadings • Dynamic wind loadings	1	Quiz 1	Lecture, Discussion	[1] Chapter 4
5,6	Earthquake Loadings: • Linear SDF systems • Inelastic SDF systems • MDF systems • Design Codes	1	Quiz 1	Lecture, Discussion	[1] Chapter 5
7-9	Lateral resistance systems; Midterm exam	2	Quiz 1; Midterm exam	Lecture, Discussion, Test	[1] Chapter 3
10-12	Sheet pile wall	3	Quiz 2	Lecture, Discussion	[2] Chapter 9

13, 14	Braced Cut	3	Quiz 2	Lecture, Discussion	[2] Chapter 10
15	Foundation design (Focus on structural designs)	3	In-class exercise	Lecture, Discussion	[2] Chapter 5& 11
16, 17	Foundation failure and Repair	3	Presentation	Lecture, Discussion	[3] Chapter 2&3
18-19	FINAL EXAM				

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
In-class exercises/quizzes/attendance (30%)	Quiz 1 60%Pass		Quiz 2 60%Pass
Midterm exam (20%)		50%Pass	
Final exam (50%)			50%Pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 24, 2025

Ho Chi Minh City, May 24, 2025

Dean of School of Civil Engineering and
Management

Dr. Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: SUSTAINABLE CONSTRUCTION

Course Code: **CE415IU**

1. General information

Course name	- <i>Sustainable Construction</i> - <i>Xây dựng bền vững</i>
Course designation	This course provides students with knowledge of green building, including green building fundamentals, green building assessment, green building design, and green building implementation.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>Specialized knowledge</i> <i>Internship/Project/Thesis</i> <i>Others:</i> ☐ ☐
Semester(s) in which the course is taught	Semester 7
Person responsible for the course	MSc. Đinh Viết Duy, Dr. Pham Thanh Tung
Language	English
Relation to curriculum	☐ Compulsory ☒ Elective
Teaching methods	Lecture, presentation, discussion, and assignments

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 127.5 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): - Lecture: 28.5 - Discussion: 9 Private study including examination preparation, specified in hours: 90	
Credit points	3 credits (Theory: 3 + Practice: 0) 4.64 ECTS (<i>optional</i>)	
Number of periods	Theory: 15 Practice: 0	
Required and recommended prerequisites for joining the course	- Prerequisites: - Corequisites: - Previous course: Civil Architecture	
Course objectives	The aim of this course is to provide: • An understanding of green building fundamentals, including main concepts, major concerns, and notable movement. • An understanding of green building assessment, including the use of LEED Building Rating System and Green Globes Building Rating Tools. • An understanding of green building design, including sustainable site and landscape, low-energy building, hydrologic cycle, building materials and products, carbon footprint, and indoor environmental quality. • An understanding of green building implementation, including construction operations and commissioning, green building economics, and sustainable construction.	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1: Demonstrate green building fundamentals CLO2: Present green building implementations
	Skill	CLO3: Assessing sustainability aspects in construction CLO4: Applying green building design in construction
	Attitude	

Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (Teach); U (Utilize)		
	Topic	Weight	Level
	Green Building Fundamentals	2	I,
	Green Building Assessment	3	T, U
	Green Building Design	7	T, U
	Green Building Implementation	3	I, T
Examination forms	Constructed-response test		
Study and examination requirements	● Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed on the basis of their class participation. Questions and comments are strongly encouraged. ● Assignments/Examination: Students must have GPA more than 50/100 points overall to pass this course.		
Reading list	● Textbooks: [1] C.J., Kibert, Sustainable Construction Green Building Design and Delivery, 4th ed., Wiley, 2016. ● Reference: [1] Hu., Ming, Green building costs: the affordability of sustainable design, Taylor & Francis, 2024. [2] M., Montoya, Green building fundamentals : practical guide to understanding and applying fundamental sustainable construction practices and the leed system, 2nd ed., Pearson, 2011.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) and Program/Student Learning Outcomes (PLO) is shown in the following table:

	<i>PLO</i>									
<i>CLO</i>	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
1	x					x				
2	x					x				
3			x	x						
4			x	x						

Program Learning Outcome:

- An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and

techniques for economic analysis.

- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments activities	Learning activities	Resources
1	Green Building Background	1	Attendance	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 1, 2
2	Ecological Design	1	Attendance Quiz 1	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 3
3	Green Building Assessment	2	Attendance	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 4
4	LEED Building Rating System	2	Attendance Quiz 2 Presentation 1	Reading materials before class; Doing	[1] Chapter 5, 6

	Green Globes Building Assessment System			the lecture; Discussion;	
5-6	Green Building Design Process	3	Attendance Quiz 3	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 7
7	Sustainable Site and Landscape	3	Attendance	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 8
8	Low-Energy Building Strategies MIDTERM EXAM	3	Attendance EXAM	Reading materials before class; Doing the lecture; Discussion; EXAM	[1] Chapter 9
9	Built Environment Hydrologic Cycle	3	Attendance	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 10
10	Building Materials and Products	3	Attendance	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 11
11	Built Environment Carbon Footprint	3	Attendance	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 12
12	Indoor Environmental Quality	3	Attendance Presentation 2	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 13
13	Construction Operations and Commissioning	4	Attendance	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 14
14	Green Building Economics	4	Attendance Quiz 4	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 15
15	The Cutting Edge of Sustainable Construction	4	Attendance Presentation 3	Reading materials before class; Doing the lecture; Discussion;	[1] Chapter 16
16-17	FINAL EXAM				

4. Assessment plan

No	Assessment Type (% contribute to GPA)	CLO1	CLO2	CLO3	CLO4
1	Progress Assessment (PA, 30%)				
1.1	Class attendance (25% of PA)	Attended 60%Pass	Attended 60%Pass	Attended 60%Pass	Attended 60%Pass
1.2	Quizzes (25% of PA)	Quiz 1 60%Pass	Quiz 2 60%Pass	Quiz 3 60%Pass	Quiz 4 60%Pass
1.3	Presentations (50% of PA)		P1 60%Pass	P2 60%Pass	P3 60%Pass
2	Midterm exam (Mid, 20%)	60%Pass	60%Pass	60%Pass	
3	Final exam (Fin, 50%)			60%Pass	60%Pass

Note: %Pass: Target that % of students having scores greater than 50 out of 100.

5. Rubrics

6. **Date revised:** June 02, 2025

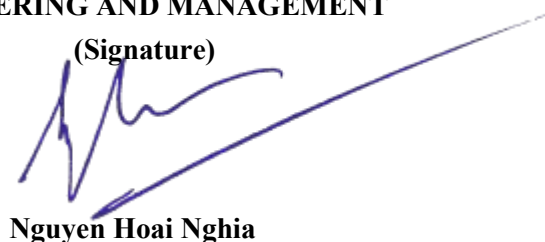
7. Course coordinator/Lecturer

- School/Department: School of Civil Engineering and Management
- Email: pttung@hcmiu.edu.vn

Ho Chi Minh City, 02/06/2025

**DEAN OF SCHOOL OF CIVIL
ENGINEERING AND MANAGEMENT**

(Signature)



Nguyen Hoai Nghia



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Management

COURSE SYLLABUS

Course Name: Construction Project

Course Code: **CE403IU**

1. General information

Course name	CE311IU – Construction Project CE403IU – Đồ án kỹ thuật thi công
Module designation	In this course, students are supposed to apply the knowledge in the courses of construction engineering and construction management to this project composing of calculating loads for construction, designing formwork for column, slab and beam, safety measure, preparing the schedule of concrete frame construction (optional), and finally writing a report.
Course type	☐ <i>General knowledge</i> ☐ <i>Fundamental</i> ☐ <i>Specialized knowledge</i> ☒ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i>
Semester(s) in which the module is taught	3
Person responsible for the module	Dr. Nguyen, Hoai Nghia
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, project, and defense.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 60 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 21 Private study including examination preparation, specified in hours ¹ : 39

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Credit points	1 credit (Theory: 00 + Practice: 01)																							
Number of periods	Theory: 00 Practice: 30																							
Required and recommended prerequisites for joining the module	- Prerequisites: - Corequisites: - Previous course: CE311IU - Construction Engineering																							
Module objectives/intended learning outcomes	Overall objectives Students who complete the course will be able to perform the following tasks: (1) Designing the construction formwork system for the concrete structure and the construction methodology. (2) Designing the construction methodology for the sub-structure, including: pressed piles, bored piles, pile caps (individually). (3) Performing the design in the calculation note, drawing, and defense.																							
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><td>Topic</td><td>Weight</td><td>Level</td></tr><tr><td>Project guidance</td><td>1</td><td>I</td></tr><tr><td>Structure dimensions Material characteristics Formwork layout arrangement</td><td>1</td><td>T, U</td></tr><tr><td>Load determination Slab formwork design</td><td>1</td><td>T, U</td></tr><tr><td>Load determination Beam forwork design</td><td>1</td><td>T, U</td></tr><tr><td>Load determination Column formwork design</td><td>1</td><td>T, U</td></tr><tr><td>Sub-structure methodology (individual assignment)</td><td>1</td><td>T, U</td></tr></table>			Topic	Weight	Level	Project guidance	1	I	Structure dimensions Material characteristics Formwork layout arrangement	1	T, U	Load determination Slab formwork design	1	T, U	Load determination Beam forwork design	1	T, U	Load determination Column formwork design	1	T, U	Sub-structure methodology (individual assignment)	1	T, U
Topic	Weight	Level																						
Project guidance	1	I																						
Structure dimensions Material characteristics Formwork layout arrangement	1	T, U																						
Load determination Slab formwork design	1	T, U																						
Load determination Beam forwork design	1	T, U																						
Load determination Column formwork design	1	T, U																						
Sub-structure methodology (individual assignment)	1	T, U																						

	Construction methodology and safety measure	1	T, U
Examination forms	Defense		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation, report, and defense. Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Text book: [1] S. W. Nunnally, (2014). <i>Construction Methods and Management</i> , Pearson, 8 th edition. [2] R. L. Peurifoy, C. J. Schexnayder, R. L. Schmitt, and A. Shapira. (2018). <i>Construction Planning, Equipment, and Methods</i> , McGraw-Hill Education 9 th edition.		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (CLO) (1-3) and Program/Student Learning Outcomes (SLO) (1 -10) is shown in the following table:

	SLO									
CLO	a	b	c	d	e	f	g	h	i	j
1			x							
2			x			x				
3						x				

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Project guidance			Lecture	Lecture note
2	Structure dimensions Material characteristics Formwork layout arrangement	1,3	Attendance/ report	Project checking	[1] Chapter 13
3	Load determination Slab formwork design	1,3	Attendance/ report	Project checking	[1] Chapter 13
4	Load determination Beam formwork design	1,3	Attendance/ report	Project checking	[1] Chapter 13
5	Load determination Column formwork design	1,3	Attendance/ report	Project checking	[1] Chapter 13, 14

6	Sub-structure methodology (individual assignment)	2,3	Attendance/ report	Project checking	[1] Chapter 10
7	Construction methodology and safety measure	1,2,3	Attendance/ report	Project checking	[1] Chapter 11
	DEFENSE			Project defense	

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
Attendance (30%)			
Report – Calculation note (20%)	Slab. Beam , column formwork design 50%Pass	Sub-structure design 50%Pass	Calculation note performance 50% Pass
Report – Drawing (20%)	Design-based performance 50% pass	Design-based performance 50% pass	Standard compliance 50% pass
Defense (30%)	Questions related to design 50% pass	Questions related to design 50% pass	

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

Ho Chi Minh City, June 12, 2025

Dean of School

(Signature)

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name

Course Name: Feasibility study and appraisal project

Course Code: CM401IU

1. General Information

Module designation	CM401IU – Feasibility study and appraisal project A practice construction project is carried out, including construction project feasibility study and appraisal. Students are supposed to apply the knowledge in the courses of construction project feasibility study and appraisal to this project composing of composing a feasibility study of a construction project including project scope, objectives, needs analysis, financial analysis, economic analysis, ... and finally writing a report.
Semester(s) in which the module is taught	4
Person responsible for the module	Dr. Nguyen, Hoai Nghia, MSc. Nguyen, Pham Duy Phuong
Language	English
Relation to curriculum	Compulsory
Teaching methods	Lecture, presentation, and assignments.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 90 Contact hours (please specify whether lecture, exercise, laboratory session, etc.): 30 Private study including examination preparation, specified in hours ¹ : 60
Credit points	1

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

Required and recommended prerequisites for joining the module	None																											
Module objectives/intended learning outcomes	Overall objectives are to equip IU students with knowledge and skills of compiling a project feasibility study Students who complete the course will be able to perform the following tasks: (1) developing a project feasibility study (2) presenting and defense the project feasibility study																											
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> Weight: lecture session (3 hours) Teaching levels: I (Introduce); T (teach); U (Utilize) <table><tr><th>Topic</th><th>Weight</th><th>Level</th></tr><tr><td>Project feasibility study requirements and criteria</td><td>1</td><td>I</td></tr><tr><td>Project scope, objectives, needs, and the related documents</td><td>1</td><td>T, U</td></tr><tr><td>Technical analysis</td><td>2</td><td>T, U</td></tr><tr><td>Total construction investment amount</td><td>2</td><td>T, U</td></tr><tr><td>Financial analysis</td><td>3</td><td>T, U</td></tr><tr><td>Economic analysis</td><td>2</td><td>T, U</td></tr><tr><td>Project risk analysis</td><td>1</td><td>T, U</td></tr><tr><td>Project environmental impact (EIA)</td><td>1</td><td>I</td></tr></table>	Topic	Weight	Level	Project feasibility study requirements and criteria	1	I	Project scope, objectives, needs, and the related documents	1	T, U	Technical analysis	2	T, U	Total construction investment amount	2	T, U	Financial analysis	3	T, U	Economic analysis	2	T, U	Project risk analysis	1	T, U	Project environmental impact (EIA)	1	I
Topic	Weight	Level																										
Project feasibility study requirements and criteria	1	I																										
Project scope, objectives, needs, and the related documents	1	T, U																										
Technical analysis	2	T, U																										
Total construction investment amount	2	T, U																										
Financial analysis	3	T, U																										
Economic analysis	2	T, U																										
Project risk analysis	1	T, U																										
Project environmental impact (EIA)	1	I																										
Examination forms	Constructed-response test																											
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the class sessions. Students will be assessed based on their class participation. Questions and comments are strongly encouraged. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.																											
Reading list	Textbook: [1] Knut Samset, <i>Early Project Appraisal – Making the Initial Choices</i>, 2010, 1st edition. References: [1] William B. Brueggeman, Jeffrey D. Fisher, <i>Real Estate Finance and Investments</i>, 2008, 13th edition.																											

	[2] David C. ling, Wayne R. Archer, <i>Real Estate Principles – a Value Approach</i> , 2008, 2nd edition.

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: developing a project feasibility study
- (2) CLO2: presenting and defense the project feasibility study

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x		x		x				
CLO2							x	x		

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.

- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods

Week	Topic	CLO	Assessments	Learning activities	Resources
1	Project feasibility study requirements and criteria	1	Lecture	Lecture	
2	Project scope, objectives, needs, and the related documents	1	Attendance Presentation	Oral	
3	Technical analysis	1	Attendance Presentation	Oral	
4	Total construction investment amount	1	Attendance Presentation	Oral	
5	Financial analysis	1	Attendance Presentation	Oral	
6	Economic analysis	1	Attendance Presentation	Oral	
7	Project risk analysis Project environmental impact (EIA)	1	Attendance Presentation	Oral	
8	Oral exam	2	Defense	Oral	

4. Assessment plan

Assessment Type	CLO1	CLO2
Attendance (30%)		
Report (50%)	Content 50%Pass	Design-based performance 50% pass
Defense (20%)	Questions related to design 50% pass	Questions related to design 50% pass

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: June 06, 2023

Ho Chi Minh City, June 12, 2023

Dean of School

A handwritten signature in blue ink, consisting of stylized, flowing letters.

Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
**School of Civil Engineering and Construction
Management**

COURSE SYLLABUS

Course Name: Internship

Course Code: **CM306IU**

1. General Information

Course name	- <i>(in English): Internship</i> - <i>(in Vietnamese): Thực tập tốt nghiệp</i>
Course designation	CM306IU – Internship This course is an internship and is designed to supplement traditional classroom-based learning with experiential learning. The internship provides students with the opportunity to practically apply knowledge gained in their courses of Construction Management.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>Specialized knowledge</i> <i>X Internship/Project/Thesis</i> ☐ <i>Others:.....</i> ☐
Semester(s) in which the module is taught	3
Person responsible for the module	Dr. Nguyen, Hoai Nghia, MSc. Nguyen, Pham Duy Phuong, Dr. Nguyen, Van Tiep, Dr. Pham Thanh Tung
Language	English
Relation to curriculum	Compulsory
Teaching methods	Apprenticeship.
Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 240 Contact hours (lecture, exercise, laboratory session, etc.): 0

	Private study including examination preparation, specified in hours ¹ : 240	
Credit points	3 credits (Theory: 0 + Practice: 45) 7.36 ECTS (<i>optional</i>)	
Number of periods	Theory: 0 Practice: 45	
Required and recommended prerequisites for joining the module	Previous course: CM303IU - Construction Planning and Scheduling, CM305IU - Construction Cost Management	
Course objectives	Overall objectives are to equip IU students with practical knowledge and skills at a construction company. Students who complete the course will be able to perform the following tasks: (1) applying theories and principles learned in academic coursework to specific situations with the internship experience based on practical works experience under supervision and guidance (2) observing and analyzing the daily functioning of the work-place and reflecting on how people within the organization carry out its mission. (3) getting motivated and confident about career options after graduating	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1: applying theories and principles learned in academic coursework to specific situations with the internship experience based on practical works experience under supervision and guidance
	Skill	CLO2: observing and analyzing the daily functioning of the work-place and reflecting on how people within the organization carry out its mission.
	Attitude	CLO3: getting motivated and confident about career options after graduating
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> (1) Internship Registration: register internship through	

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

	Edusoft or form. (2) Internship Application and Student Performance Record. (3) Student Progress Report: The purpose of this report is to track student progress and ensure that students meet their required time commitment. This report is to be completed by the student and must be submitted to the Program Assistant no later than the last working day of each week. 5 points will be deducted from your final grade each time a progress report is submitted late. (4) Supervisor & Advisor Evaluations: This questionnaire helps ensure that the DCE receives a complete and fair assessment of each student's performance from the site supervisor and advisor. At the completion of the internship, students are responsible for requesting their site supervisor and advisor to complete and send this form to their advisor and then submit to the Program Assistant. (5) Final Report: In order to receive credit and a final grade for an approved internship student, must submit the final report. See below for suggested final report requirements. This report is to be completed by the student and must be submitted to the Program Assistant no later than the due date (to be defined later). 10 points will be deducted from your final grade when the final report is submitted late.
Examination forms	Defense
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the internship. Students will be assessed based on their internship participation. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.
Reading list	Textbook: [1] All related textbook in the CM program. References:

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- CLO1: applying theories and principles learned in academic coursework to specific situations with the internship experience based on practical works experience under supervision and guidance

- CLO2: observing and analyzing the daily functioning of the work-place and reflecting on how people within the organization carry out its mission.
- CLO3: getting motivated and confident about career options after graduating

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1		x	x		x	x				
CLO2		x	x		x	x			x	
CLO3							x	x	x	

Program Learning Outcome:

- An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.
- An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Planned learning activities and teaching methods (report guidelines)

The final report is the culmination of your entire internship experience. It should be, at a minimum, 6-10 pages in length and be both descriptive and analytical in nature. Specifically, it should address the following:

- (1) Describe the organization at which you did your internship and the nature of the work in which

it is involved.

- (2) Include descriptions of your daily tasks and responsibilities, as well as any significant events and your accomplishments.
- (3) Discuss both what you learned and what you wish you had learned, including both general knowledge about the field in which you were working and specific skills gained.
- (4) Discuss the dynamics of the internship site, including the effectiveness of your role at the internship site (as you perceived it) and the mentorship that you received.
- (5) Include an analysis of how the internship affected your professional development. What did it reveal to you about yourself and your career goals?
- (6) *Note: Please use the following format: Times New Roman of 12-point font; 1.5-spaced and page numbers.*

4. Assessment plan

Assessment Type	CLO1	CLO2	CLO3
Company instructor evaluation (50%)	Content 50%Pass	Design-based performance 50% pass	
IU supervisor (50%)	Questions related to design 50% pass	Questions related to design 50% pass	

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: 30/5/2025

Ho Chi Minh City, May 31, 2025

Dean of School



Dr. Nguyễn Hoài Nghĩa



VIETNAM NATIONAL UNIVERSITY HCMC
INTERNATIONAL UNIVERSITY
School of Civil Engineering and Construction
Management

COURSE SYLLABUS

Course Name: Thesis

Course Code: **CM420IU**

1. General Information

Course name	- <i>(in English): Thesis</i> - <i>(in Vietnamese): Luận văn tốt nghiệp</i>
Course designation	CM420IU – Thesis In the thesis, students can carry out project feasibility study or construction design/ compile bidding documents/ specifications/ contracts/ schedules for the construction projects or construction packages, including footings-foundations, slabs, beams, columns, construction general layout, ... Student can also apply knowledge to do research topic in construction management.
Course type	☐ <i>General knowledge</i> <i>Fundamental</i> ☐ <i>Specialized knowledge</i> ☒ <i>Internship/Project/Thesis</i> ☐ <i>Others:</i> ☐
Semester(s) in which the module is taught	9
Person responsible for the module	Dr. Nguyen, Hoai Nghia, MSc. Nguyen, Pham Duy Phuong, Dr. Nguyen, Van Tiep, Dr. Pham Thanh Tung
Language	English
Relation to curriculum	Compulsory
Teaching methods	Monitoring

Workload (incl. contact hours, self-study hours)	(Estimated) Total workload: 150 Contact hours (whether lecture, exercise, laboratory session): 30 Private study including examination preparation, specified in hours ¹ : 120	
Credit points	10 credits (Theory: + Practice: 150) 24.55 ECTS (<i>optional</i>)	
Number of periods	Theory: 0 Practice: 150	
Required and recommended prerequisites for joining the module	Accumulating at least 120 credits, Internship (CM306IU), Business research method (BA161IU) CEM faculties and/or Industrial experts will be assigned to supervise the student in performing his/ her thesis. Students will work one-on-one with their thesis advisor (CEM faculties and/or Industrial experts) and the thesis coordinator to identify times that they will meet and create a plan for completing the graduation thesis.	
Course objectives	Overall objectives are to equip IU students with the knowledge application from the courses in the program of civil engineering to handle a problem in construction management. Students who complete the course will be able to perform the following tasks: (1) Having the understanding processes in design construction methodology to construct a project in civil engineering (2) Developing general construction plan/ schedule/ specifications/ bidding documents/ contracts or conducting a research (explore, investigate, analyze) to solve a problem in construction management	
Course learning outcomes	Upon the successful completion of this course students will be able to:	
	Competency level	Course learning outcome (CLO)
	Knowledge	CLO1: Having the understanding processes in design construction methodology to construct a project in civil engineering
	Skill	CLO2: Developing general construction plan/ schedule/ specifications/ bidding documents/ contracts or conducting a research (explore, investigate, analyze) to

¹ When calculating contact time, each contact hour is counted as a full hour because the organisation of the schedule, moving from room to room, and individual questions to lecturers after the class, all mean that about 60 minutes should be counted.

		solve a problem in construction management	
	Attitude	N/A	
Content	<i>The description of the contents should clearly indicate the weighting of the content and the level.</i> (1) Student is expected that you will spend full time within 15 weeks to conduct thesis. This time should be made up of reading standards, designing and drawing construction methodology a project; developing specifications/ bidding documents/ contracts; conducting a study in construction management and writing thesis report. Students will meet and discuss with advisor every week or during any time when students get trouble.		
Examination forms	Defense		
Study and examination requirements	Attendance: A minimum attendance of 80 percent is compulsory for the checking. Students will be assessed based on their monitoring participation. Assignments/Examination: Students must have more than 50/100 points overall to pass this module.		
Reading list	Textbook: [1] All related textbook in the CM program. References:		

2. Learning Outcomes Matrix (optional)

The relationship between Course Learning Outcomes (1-3) and Program/Student Learning Outcomes (a-j) is shown in the following table:

- (1) CLO1: Having the understanding processes in design construction methodology to construct a project in civil engineering
- (2) CLO2: Developing general construction plan/ schedule/ specifications/ bidding documents/ contracts or conducting a research (explore, investigate, analyze) to solve a problem in construction management

No.	Program Learning Outcome									
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
CLO1	x	x	x							x
CLO2			x	x	x	x	x	x		x

Program Learning Outcome:

- (a) An ability to acquire and apply the foundation knowledge in terms of natural and social science to understand principles of construction management.

- (b) An ability to understand basic principles of economy management, business management models, digital transformation in construction (BIM, AI), and utilize statistical tools and techniques for economic analysis.
- (c) An ability to understand and utilize mathematical tools, problem-solving methods including technical and economic tasks and problems, and professional knowledge in construction management for managing and controlling variety aspects of construction projects.
- (d) An ability to identify project objectives, scope and legal documents required as well as to be able to evaluate social-economic benefits of construction project investments; conduct literature research, collect and interpret data based on the methods of academic research.
- (e) An ability to grasp, analyse and evaluate methods and processes in construction management to solve complex problems across time, cost and quality management as well as apply artificial intelligence and building information modelling to improve the project management performance.
- (f) An ability to use tools and techniques required for identifying, analysing, and evaluating the problems as well as thinking independently, logically, and critically in seeking appropriate solutions; to work on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (g) An ability to communicate effectively with a range of audiences and actively work individually and as part of an international group as well as become accustomed to the responsibilities of leadership
- (h) An ability to comprehensively use English language in construction management, express themselves in a logical and convincing way both orally and in writing and communicate with their specialist colleague.
- (i) An ability to recognize ethics and professional responsibility in civil engineering and construction management; and have suitable communication and interaction with people.
- (j) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

3. Course outline

No .	Week	Content
1	1	- Students contact to advisor to assign the topic of thesis.
2	2-15	- Students conduct thesis - Student will meet advisor every week at suitable time - Advisor inform about acting of student after 8th week and 15th week before submitting the thesis

4. Assessment plan

Students are evaluated based on average score by advisor, reviewer and committee members including 5 members based on following aspects:

Number	Content	Score	Notes
1	Define Problem Statement	Max 15	
2	Thesis Format and Organization	Max 10	
3	English Writing and Grammar	Max 10	
4	Scientific and Academic Quality	Max 15	
5	Research Methodology	Max 15	
6	Problem Solution	Max 15	
7	Creative Characteristic	Max 10	
8	Future Recommendation	Max 10	
	Total Score	100	

Note: %Pass: % students have scores greater than 50 out of 100.

5. Date revised: May 31, 2025

	Ho Chi Minh City, June 12, 2025 Dean of School  Dr. Nguyễn Hoài Nghĩa

Phụ lục 3

**BẢNG MÔ TẢ SỐ TÍN CHỈ THỰC TẬP CỦA CHƯƠNG TRÌNH ĐÀO TẠO
ĐƯỢC THỂ HIỆN CỤ THỂ THEO MÔN HỌC ĐỂ ĐẢM BẢO
8 TÍN CHỈ THỰC TẬP THEO QUY ĐỊNH TẠI THÔNG TƯ 17/2021/TT-BGDĐT**
(Kèm theo Quyết định số /QĐ-ĐHQT ngày tháng năm 2025
của Hiệu trưởng Trường Đại học Quốc tế)

STT	Mã môn học	Tên môn học	Số tín chỉ	Ghi chú
1	CM203IU	Construction Management Project Đồ án quản lý xây dựng	1	
2	CM307IU	Construction Planning and Scheduling Project Đồ án hoạch định và tiến độ xây dựng	1	
3	CM304IU	Construction measurement and Cost Estimating Project Đồ án đo bóc khối lượng và ước tính chi phí xây dựng	1	
4	CM312IU	Building Information Management Project Đồ án hệ thống quản lý thông tin công trình	1	
5	CM401IU	Feasibility Study and Appraisal Project Đồ án kỹ thuật thi công	1	
6	CM306IU	Internship Thực tập	3	
7	Tổng cộng		8	

Phụ lục 4

**MỨC ĐỘ ĐÁP ỨNG KHUNG NĂNG LỰC SỐ CỦA CHƯƠNG TRÌNH ĐÀO TẠO
NGÀNH QUẢN LÝ XÂY DỰNG**

*(Kèm theo Quyết định số /QĐ-ĐHQT ngày tháng năm 2025
của Hiệu trưởng Trường Đại học Quốc tế)*

** Đáp ứng Thông tư 02/2025/TT-BGDĐT ngày 24/01/2025 của Bộ Giáo dục và Đào tạo
Quy định về Khung năng lực số cho người học.*

I. Mức độ đáp ứng khung năng lực số của chương trình đào tạo

1. Miền năng lực 1: Khai thác dữ liệu và thông tin

** Đánh giá năng lực thành phần theo 8 bậc của Khung năng lực số (từ bậc 1 đến bậc 8)*

STT	Mã MH	Tên MH (Tiếng Anh)	Năng lực thành phần (NLTP)		
			NLTP 1.1	NLTP 1.2	NLTP 1.3
1	BA080IU	Statistics for Business	Bậc 4	Bậc 5	Bậc 4
2	CM405IU	Project communication Management	Bậc 5	Bậc 5	Bậc 5
3	CM310IU	Building Information Management	Bậc 5	Bậc 5	Bậc 6

2. Miền năng lực 2: Giao tiếp và hợp tác trong môi trường số

** Đánh giá năng lực thành phần theo 8 bậc của Khung năng lực số (từ bậc 1 đến bậc 8)*

ST T	Mã MH	Tên MH (Tiếng Anh)	Năng lực thành phần					
			NLTP 2.1	NLTP 2.2	NLTP 2.3	NLTP 2.4	NLTP 2.5	NLTP 2.6
1	PE022IU	Engineering Ethics and		Bậc 4	Bậc 4		Bậc 4	

		Critical Thinking						

3. Miền năng lực 3: Sáng tạo nội dung số

** Đánh giá năng lực thành phần theo 8 bậc của Khung năng lực số (từ bậc 1 đến bậc 8)*

STT	Mã MH	Tên MH (Tiếng Anh)	Năng lực thành phần			
			NLTP 3.1	NLTP 3.2	NLTP 3.3	NLTP 3.4
1	CM310IU	Building Information Management	Bậc 5	Bậc 5	Bậc 4	Bậc 4
2	CM312IU	Building Information Management Project	Bậc 6	Bậc 5	Bậc 5	Bậc 5

4. Miền năng lực 4: An toàn

** Đánh giá năng lực thành phần theo 8 bậc của Khung năng lực số (từ bậc 1 đến bậc 8)*

STT	Mã MH	Tên MH (Tiếng Anh)	Năng lực thành phần			
			NLTP 4.1	NLTP 4.2	NLTP 4.3	NLTP 4.4
1	PE022IU	Engineering Ethics and Critical Thinking	Bậc 4	Bậc 4	Bậc 4	Bậc 4

5. Miền năng lực 5: Giải quyết vấn đề

** Đánh giá năng lực thành phần theo 8 bậc của Khung năng lực số (từ bậc 1 đến bậc 8)*

STT	Mã MH	Tên MH (Tiếng Anh)	Năng lực thành phần			
			NLTP 5.1	NLTP 5.2	NLTP 5.3	NLTP 5.4
1	CE103IU	Computer-Aided Design and Drafting	Bậc 4	Bậc 4	Bậc 5	Bậc 4
2	CE310IU	Building information management	Bậc 5	Bậc 5	Bậc 4	Bậc 4
3	CM308IU	Project Feasibility Study and Appraisal	Bậc 5	Bậc 5	Bậc 4	Bậc 4

6. Miền năng lực 6: Ứng dụng trí tuệ nhân tạo

* Đánh giá năng lực thành phần theo 8 bậc của Khung năng lực số (từ bậc 1 đến bậc 8)

STT	Mã MH	Tên MH (Tiếng Anh)	Năng lực thành phần		
			NLTP 6.1	NLTP 6.2	NLTP 6.3
1	CE217IU	Artificial Intelligence in CE and CM	Bậc 5	Bậc 5	Bậc 5
2	CE412IU	Advanced AI in CE and CM	Bậc 6	Bậc 5	Bậc 6

II. Phương pháp đánh giá chuẩn đầu ra khung năng lực số

Miền năng lực	Năng lực thành phần (NLTP)	Môn học (Mã môn- Tên môn)	Hình thức đánh giá
1. Khai thác dữ liệu và thông tin	NLTP 1.1	BA080IU CM405IU CM310IU	Thảo luận trên lớp, bài tập nhóm, Thuyết trình nhóm, Bài thi giữa kỳ, Bài thi cuối kỳ.
	NLTP 1.2		
	NLTP 1.3		
2. Giao tiếp và hợp tác trong môi trường số	NLTP 2.1	PE022IU	Case study, Thuyết trình nhóm
	NLTP 2.2		
	NLTP 2.3		
	NLTP 2.4		
	NLTP 2.5		
	NLTP 2.6		
3. Sáng tạo nội dung số	NLTP 3.1	CM310IU CM312IU	Thảo luận trên lớp, bài tập nhóm, Thuyết trình nhóm, Bài thi giữa kỳ, Bài thi cuối kỳ.
	NLTP 3.2		
	NLTP 3.3		
	NLTP 3.4		

4. An toàn	NLTP 4.1	PE022IU	Case study, Thuyết trình nhóm
	NLTP 4.2		
	NLTP 4.3		
	NLTP 4.4		
5. Giải quyết vấn đề	NLTP 5.1	CE103IU CE310IU CM308IU	Thảo luận trên lớp, bài tập nhóm, Thuyết trình nhóm, Bài thi giữa kỳ, Bài thi cuối kỳ.
	NLTP 5.2		
	NLTP 5.3		
	NLTP 5.4		
6. Ứng dụng trí tuệ nhân tạo	NLTP 6.1	CE217IU CE412IU	Quiz, Case study, Thuyết trình nhóm
	NLTP 6.2		
	NLTP 6.3		