



International University

Vietnam National University-HCMC (VNU-HCMC)

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC CURRICULUM

of

CIVIL ENGINEERING

BATCH 2020 ONWARD

Department of Civil Engineering

Room A1.503, International University – Viet Nam National University HCMC

Quarter 6, Linh Trung Ward, Thu Duc District, Ho Chi Minh City, Viet Nam.

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DISTRIBUTION OF CIVIL ENGINEERING CURRICULUM_BATCH (2020 – onwards)

Freshman Year							
<i>Semester 1</i>		<i>Cr</i>	<i>ECTS</i>	<i>Semester 2</i>		<i>Cr</i>	<i>ECTS</i>
EN007IU	Writing AE1	2	3.09	EN011IU	Writing AE2	2	3.09
EN008IU	Listening AE1	2	3.09	EN012IU	Speaking AE2	2	3.09
MA001IU	Calculus 1	4	6.18	MA003IU	Calculus 2	4	6.18
PH013IU	Physics 1	2	3.09	PE015IU	Philosophy of Marxism and Leninism	3	4.64
CH011IU	Chemistry for Engineer	3	4.64	PE016IU	Political economics of Marxism and Leninism	2	3.09
CE100IU	Introduction to Civil Engineering	1	2.45	CH012IU	Chemistry Laboratory	1	2.45
CE101IU	Engineering Mechanics - Statics	3	4.64	CE102IU	Introduction to Computing for Engineers	3	4.64
PT001IU	Physical Training 1			PH014IU	Physics 2	2	3.09
				PT002IU	Physical Training 2		
Total Credits		17	27.18	Total Credits		19	30.27
<i>Summer Semester 1</i>							
Political Education:							
1. PE017IU Scientific socialism (2)							
2. PH015IU Physics 3 (3)		10	16.36				
3. PH016IU Physics 3 Laboratory (1)							
4. MA024IU Differential Equations (4)							
Sophomore Year							
<i>Semester 3</i>		<i>Cr</i>	<i>ECTS</i>	<i>Semester 4</i>		<i>Cr</i>	<i>ECTS</i>
PE018IU	History of Vietnamese Communist Party	2	3.09	CE213IU	Computational Methods for Civil Engineering	3	4.64
PE019IU	Ho Chi Minh's Thoughts	2	3.09	CE209IU	Structural Analysis 1	2	3.09
CE103IU	Computer-Aided Design and Drafting (CADD)	3	4.64	CE208IU	Mechanics of Materials 2	2	3.09
CE104IU	Practice CADD	1	2.45	CE210IU	Construction Materials	3	4.64
CE201IU	Mechanics of Materials 1	2	3.09	CE211IU	Hydrology- Hydraulics	3	4.64
CE202IU	Mechanics of Materials Laboratory	1	2.45	PE008IU	Critical Thinking	3	4.64
CE203IU	Engineering Mechanics- Dynamics	3	4.64	CE214IU	Civil Architecture	2	3.09
CE205IU	Fluid Mechanics	2	3.09	CE216IU	Probability and Statistics	3	4.64
CE206IU	Fluid Mechanics Laboratory	1	2.45				
CE215IU	Applied Linear Algebra	2	3.09				
Total Credits		19	32.08	Total Credits		21	32.47
<i>Summer Semester 2</i>							
MP001IU Military Training							
Junior Year							
<i>Semester 5</i>		<i>Cr</i>	<i>ECTS</i>	<i>Semester 6</i>		<i>Cr</i>	<i>ECTS</i>
CE301IU	Structural Analysis 2	3	4.64	CE307IU	Surveying	2	3.09
CE302IU	Soil Mechanics	3	4.64	CE308IU	Surveying Practice	1	2.45
CE303IU	Soil Mechanics Laboratory	1	2.45	CE309IU	Foundation Engineering	3	4.64
CE304IU	Reinforced concrete 1	3	4.64	CE310IU	Reinforced Concrete 2	3	4.64
CE305IU	Steel Structures	3	4.64	CE311IU	Construction Engineering	3	4.64

CE306IU	Water Supply and Sewerage	3	4.64	CE312IU	Steel Structure Project	1	2.45
				CE313IU	Reinforced Concrete Project	1	2.45
				CE_ _ _	CE Elective	3	4.64
Total Credits		16	25.65	Total Credits		17	29
Summer Semester 3							
CE314IU Summer Internship (3/7.36 crds)							
Senior Year							
Semester 7				Semester 8			
		Cr	ECTS			Cr	ECTS
CE401IU	Construction Management	3	4.64	_ _ _ IU	IU Free Elective	3	4.64
CE_ _ _	CE Elective	3	4.64				
CE_ _ _	CE Elective	3	4.64				
_ _ _ IU	IU Free Elective	3	4.64	CE420IU	<i>GRADUATION THESIS</i>	10	24.55
CE402IU	Foundation Project	1	2.45				
CE403IU	Construction Project	1	2.45				
PE020IU	Engineering Ethics and Professional Skills	3	4.64				
Total Credit		17	28.1	Total Credits		13	29.19

Total credits: 152 (=257.66 ECTS)

LIST OF ELECTIVE COURSES

CE Elective

No.	Course ID	Course	Credits	ECTS
1	CE404IU	Dynamics of Structures	3	4.64
2	CE405IU	Hydraulic Structures	3	4.64
3	CE406IU	Bridges Engineering	3	4.64
4	CE407IU	Tall Buildings	3	4.64
5	CE408IU	Introduction to Building Facilities	3	4.64
6	CE409IU	Transportation Engineering and Planning	3	4.64
7	CE410IU	Highway Engineering	3	4.64
8	CE411IU	Urban Engineering	3	4.64

IU elective

No	S. ID	Subject Name	Credit	ECTS
1	BA003IU	Principles of Marketing	3	4.64
2	BA006IU	Business Communication	3	4.64
3	BA020IU	Business Ethics	3	4.64
4	BA116IU	Introduction to Social Science	3	4.64
5	BA118IU	Introduction to Psychology	3	4.64
6	BA117IU	Introduction to Microeconomics	3	4.64
7	BA119IU	Introduction to Macroeconomics	3	4.64
8	BA123IU	Principles of Management	3	4.64
9	BA130IU	Organizational Behavior	3	4.64
10	BA167IU	Introduction to Vietnamese Legal System	3	4.64
11	BA169IU	Management Information Systems	3	4.64
12	BA120IU	Business Computing Skills	3	4.64
13	BA115IU	Introduction to Business Administration	3	4.64
14	IS019IU	Production Management	3	4.64
15	IS026IU	Project Management	3	4.64
16	IT063IU	Theoretical Models in Computing	4	6.18
17	IT091IU	Computer Networks	4	6.18
18	IT094IU	Information System Management	4	6.18

LIST OF PREVIOUS COURSES

No.	Course ID	Course	Credits	ECTS	Course ID	Previous courses
1	EN011IU	Writing AE 2	2	3.09	EN007IU	Writing AE1
2	MA003IU	Calculus 2	4	6.18	MA001IU	Calculus 1
3	PE017IU	Scientific socialism	2	3.09	PE015IU	Philosophy of Marxism and Leninism
4	PE017IU	Scientific socialism	2	3.09	PE016IU	Political economics of Marxism and Leninism
5	PE018IU	History of Vietnamese Communist Party	2	3.09	PE015IU	Philosophy of Marxism and Leninism
6	PE018IU	History of Vietnamese Communist Party	2	3.09	PE016IU	Political economics of Marxism and Leninism
7	PE018IU	History of Vietnamese Communist Party	2	3.09	PH017IU	Scientific socialism
8	CE201IU	Mechanics of Materials 1	2	3.09	CE101IU	Engineering Mechanic - Statics
9	CE202IU	Mechanics of Materials Laboratory	1	2.45	CE101IU	Engineering Mechanic - Statics
10	CE203IU	Engineering Mechanic - Dynamics	3	4.64	CE101IU	Engineering Mechanic - Statics
11	CE208IU	Mechanics of Materials 2	2	3.09	CE201IU	Mechanics of Materials 1
12	CE209IU	Structural Analysis 1	2	3.09	CE201IU	Mechanics of Materials 1
13	CE210IU	Construction Materials	3	4.64	CE201IU	Mechanics of Materials 1
14	CE210IU	Construction Materials	3	4.64	CH011IU	Chemistry for Engineers
15	CE211IU	Hydrology- Hydraulics	3	4.64	CE205IU	Fluid Mechanics
16	CE213IU	Computational Methods for Civil Engineering	3	4.64	MA003IU	Calculus 2
17	CE301IU	Structural Analysis 2	3	4.64	CE209IU	Structural Analysis 1
18	CE301IU	Structural Analysis 2	3	4.64	CE213IU	Computational Methods for Civil Engineering
19	CE302IU	Soil Mechanics	3	4.64	CE201IU	Mechanics of Materials 1
20	CE303IU	Soil Mechanics Laboratory	1	2.45	CE201IU	Mechanics of Materials 1
21	CE304IU	Reinforced concrete 1	3	4.64	CE209IU	Structural Analysis 1
22	CE305IU	Steel Structures	3	4.64	CE209IU	Structural Analysis 1
23	CE306IU	Water Supply and Sewerage	3	4.64	CE211IU	Hydrology- Hydraulics
24	CE309IU	Foundation Engineering	3	4.64	CE302IU	Soil Mechanics
25	CE310IU	Reinforced Concrete 2	3	4.64	CE304IU	Reinforced concrete 1
26	CE311IU	Construction Engineering	3	4.64	CE304IU	Reinforced concrete 1
27	CE312IU	Steel Structure Project	1	2.45	CE305IU	Steel Structures
28	CE313IU	Reinforced Concrete Project	1	2.45	CE304IU	Reinforced concrete 1
29	CE401IU	Construction Management	3	4.64	CE311IU	Construction Engineering

30	CE402IU	Foundation Project	1	2.45	CE309IU	Foundation Engineering
31	CE403IU	Construction Project	1	2.45	CE311IU	Construction Engineering
32	CE404IU	Dynamics of Structures	3	4.64	CE301IU	Structural Analysis 2
33	CE405IU	Hydraulic Structures	3	4.64	CE211IU	Hydrology- Hydraulics
34	CE406IU	Bridge Engineering	3	4.64	CE310IU	Reinforced Concrete 2
35	CE407IU	Tall Buildings	3	4.64	CE404IU	Dynamics of Structures

LIST OF CO-REQUISITE COURSES

No.	Course ID	Course	Credits	ECTS		Co-requisite courses
1	CE103IU	Computer-Aided Design and Drafting (CADD)	3	4.64	CE104IU	Practice CADD
2	CE104IU	Practice CADD	1	2.45	CE103IU	Computer-Aided Design and Drafting (CADD)
3	CE201IU	Mechanics of Materials 1	2	3.09	CE202IU	Mechanics of Materials Laboratory
4	CE202IU	Mechanics of Materials Laboratory	1	2.45	CE201IU	Mechanics of Materials 1
5	CE205IU	Fluid Mechanics	2	3.09	CE206IU	Fluid Mechanics Laboratory
6	CE206IU	Fluid Mechanics Laboratory	1	2.45	CE205IU	Fluid Mechanics
7	CE302IU	Soil Mechanics	3	4.64	CE303IU	Soil Mechanics Laboratory
8	CE303IU	Soil Mechanics Laboratory	1	2.45	CE302IU	Soil Mechanics
9	CE307IU	Surveying	2	3.09	CE308IU	Surveying Practice
10	CE308IU	Surveying Practice	1	2.45	CE307IU	Surveying