

IU CE CURRICULUM – LEVEL AE1 (IELTS \geq 5.5/ TOEFL iBT \geq 61)**Freshman Year (42 cr)**

<i>Semester 1</i>			<i>Semester 2</i>		
EN007IU	Writing AE1	2	EN011IU	Writing AE2	2
EN008IU	Listening AE1	2	EN012IU	Speaking AE2	2
MA001IU	Calculus 1	4	MA003IU	Calculus 2	4
PH013IU	Physics 1	2	PE015IU	Philosophy of Marxism and Leninism	3
CH011IU	Chemistry for Engineer	3	CH012IU	Chemistry Laboratory	1
CE100IU	Introduction to Civil Engineering	1	CE102IU	Introduction to Computing for Engineers	3
CE101IU	Engineering Mechanics -Statics	3	PH014IU	Physics 2	2
PT001IU	Physical Training 1	3	PT002IU	Physical Training 2	3
Total Credits (not including Physical Training 1)			17	Total Credits (not including Physical Training 2)	
				17	

Summer Semester 1

PH015IU	Physics 3	3
PH016IU	Physics 3 Laboratory	1
PH013IU	Differential Equations	4
Total Credits		8

Sophomore Year (33 cr)

<i>Semester 3</i>			<i>Semester 4</i>		
PE018IU	History of Vietnamese Communist Party	2	CE209IU	Structural Analysis 1	2
PE016IU	Political economics of Marxism and Leninism	2	CE208IU	Mechanics of Materials 2	2
CE103IU	Computer-Aided Design and Drafting (CADD)	3	CE210IU	Construction Materials	3
CE104IU	Practice CADD	1	CE214IU	Civil Architecture	2
CE201IU	Mechanics of Materials 1	2	CE216IU	Probability and Statistics	3
CE202IU	Mechanics of Materials Laboratory	1	CE215IU	Applied Linear Algebra	2
CE205IU	Fluid Mechanics	2	PE019IU	Ho Chi Minh's Thoughts	2
CE206IU	Fluid Mechanics Laboratory	1			
CE213IU	Computational Methods for Civil Engineering	3			
Total Credits			17	Total Credits	
				16	

Summer Semester 2

MP001IU	Military Training	
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Junior Year (35 cr)

<i>Semester 5</i>			<i>Semester 6</i>		
CE301IU	Structural Analysis 2	3	CE307IU	Surveying	2
CE302IU	Soil Mechanics	3	CE311IU	Construction Engineering	3
CE303IU	Soil Mechanics Laboratory	1	CE308IU	Surveying Practice	1
CE304IU	Reinforced concrete 1	3	CE309IU	Foundation Engineering	3
CE305IU	Steel Structures	3	CE310IU	Reinforced Concrete 2	3
CE217IU	Artificial Intelligence in Civil Engineering and Construction Management	3	CE312IU	Steel Structure Project	1
			PE017IU	Scientific Socialism	2
			CE313IU	Reinforced Concrete Project	1
Total Credits			16	Total Credits	
				16	

Summer Semester 3

CE314IU	Summer Internship	3
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Senior Year (32 cr)

<i>Semester 7</i>			<i>Semester 8</i>		
CE401IU	Construction Management	3	__ _IU	IU Free Elective	3
PE021IU	General law	3	CE_ _ _	CE Elective	3
CE306IU	Water Supply and Sewerage	3	CE_ _ _	CE Elective	3
CE_ _ _	CE Elective	3	__ _IU	IU Free Elective	3
CE402IU	Foundation Project	1	PE020IU	Engineering Ethics and Professional Skills	3
CE211IU	Hydrology- Hydraulics	3			
CE403IU	Construction Project	1			
Total Credit			17	Total Credits	
				15	

Senior Year (10 cr)

<i>Semester 9</i>		
CE420IU	GRADUATION THESIS	10
Total Credit		10

Total credits: 152 (not including Physical Training 1 and Physical Training 2 courses)

CE Elective (9 CREDITS)

No	S. ID	Subject Name	Credit
1	CE404IU	Dynamics of Structures	3
2	CE405IU	Hydraulic Structures	3
3	CE406IU	Bridges Engineering	3
4	CE407IU	Tall Buildings	3
5	CE408IU	Introduction to Building Facilities	3
6	CE409IU	Transportation Engineering and Planning	3
7	CE410IU	Highway Engineering	3
8	CE411IU	Urban Engineering	3
9	CM310IU	Building Information Management	3
10	CE412IU	Advanced Artificial Intelligence in Civil Engineering and Construction Management	3
11	CE415	Construction Project management	3
12	CE413IU	GIS Applications in Civil Engineering	3

IU Elective (6 CREDITS)

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