

**IU CE CURRICULUM – LEVEL 1 (TOEFL ≥ 500) or (TOEFL iBT ≥ 61)**

<b>Freshman Year</b>					
<b>Semester 1</b>			<b>Semester 2</b>		
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
PH014IU	Physics 2	2	PE016IU	Political economics of Marxism and Leninism	2
CH011IU	Chemistry for Engineer	3	CE102IU	Introduction to Computing for Engineers	3
CH012IU	Chemistry Laboratory	1	CE101IU	Engineering Mechanics -Statics	3
PT001IU	Physical Training 1	3	PT002IU	Physical Training 2	3
CE100IU	Introduction to Civil Engineering	1			
<b>Total Credits</b>			<b>20</b>		
<b>Total Credits</b>			<b>22</b>		
<b>Summer Semester 1</b>					
Political Education:					
1.	PE017IU	Scientific socialism (2)			
2.	PE018IU	History of Vietnamese Communist Party (2)	10		
3.	PE019IU	Ho Chi Minh's Thoughts (2)			
4.	PH015IU	Physics 3 (3)			
5.	PH016IU	Physics 3 Laboratory (1)			
<b>Sophomore Year</b>					
<b>Semester 3</b>			<b>Semester 4</b>		
MA024IU	Differential Equations	4	CE213IU	Computational Methods for Civil Engineering	3
CE103IU	Computer-Aided Design and Drafting (CADD)	3	CE209IU	Structural Analysis 1	2
CE104IU	Practice CADD	1	CE208IU	Mechanics of Materials 2	2
CE201IU	Mechanics of Materials 1	2	CE210IU	Construction Materials	3
CE202IU	Mechanics of Materials Laboratory	1	CE211IU	Hydrology- Hydraulics	3
CE203IU	Engineering Mechanics- Dynamics	3	PE008IU	Critical Thinking	3
CE205IU	Fluid Mechanics	2	CE214IU	Civil Architecture	2
CE206IU	Fluid Mechanics Laboratory	1	CE216IU	Probability and Statistics	3
CE215IU	Applied Linear Algebra	2			
<b>Total Credits</b>			<b>19</b>		
<b>Total Credits</b>			<b>21</b>		
<b>Summer Semester 2</b>					
MP001IU Military Training					
<b>Junior Year</b>					
<b>Semester 5</b>			<b>Semester 6</b>		
CE301IU	Structural Analysis 2	3	CE307IU	Surveying	2
CE302IU	Soil Mechanics	3	CE308IU	Surveying Practice	1
CE303IU	Soil Mechanics Laboratory	1	CE309IU	Foundation Engineering	3
CE304IU	Reinforced concrete 1	3	CE310IU	Reinforced Concrete 2	3
CE305IU	Steel Structures	3	CE311IU	Construction Engineering	3
CE306IU	Water Supply and Sewerage	3	CE312IU	Steel Structure Project	1
			CE313IU	Reinforced Concrete Project	1
			CE_ _ _	CE Elective	3
<b>Total Credits</b>			<b>16</b>		
<b>Total Credits</b>			<b>17</b>		
<b>Summer Semester 3</b>					
CE314IU Summer Internship (3 crds)					
<b>Senior Year</b>					
<b>Semester 7</b>			<b>Semester 8</b>		
CE401IU	Construction Management	3	_ _ _ IU	IU Free Elective	3
CE_ _ _	CE Elective	3			
CE_ _ _	CE Elective	3			
_ _ _ IU	IU Free Elective	3	CE420IU	GRADUATION THESIS	10
CE402IU	Foundation Project	1			
CE403IU	Construction Project	1			
PE020IU	Engineering Ethics and Professional Skills	3			
<b>Total Credit</b>			<b>17</b>		
<b>Total Credits</b>			<b>13</b>		
<b>Total credits: 158</b>					

**IU CE CURRICULUM – LEVEL 2 (417 < TOEFL < 500) OR 34 <TOEFL iBT <61****Freshman Year****Semester 1**

	EN074IU, EN075IU	IE2	16
MA001IU	Calculus 1		4
PT001IU	Physical Training 1		3

**Semester 2**

EN007IU	Writing AE1	2
EN008IU	Listening AE1	2
MA003IU	Calculus 2	4
PE015IU	Philosophy of Marxism and Leninism	3
PE016IU	Political economics of Marxism and Leninism	2
CH011IU	Chemistry for Engineer	3
CE101IU	Engineering Mechanics – static	3
CE100IU	Introduction to Civil Engineering	1
PT002IU	Physical Training 2	3

**Total Credits 23****Total Credits 23****Summer Semester 1**

Political Education:

1.	PE017IU	Scientific socialism (2)	
2.	PE018IU	History of Vietnamese Communist Party (2)	
3.	PE019IU	Ho Chi Minh's Thoughts (2)	10
4.	PH013IU	Physics 1 (2)	
5.	PH014IU	Physics 2 (2)	

**Sophomore Year****Semester 3**

EN011IU	Writing AE2	2
EN012IU	Speaking AE2	2
MA024IU	Differential Equations	4
CE102IU	Introduction to Computing for Engineers	3
CE201IU	Mechanics of Materials 1	2
CE202IU	Mechanics of Materials Laboratory	1
CE203IU	Engineering Mechanics - Dynamics	3
CH012IU	Chemistry Laboratory	1
PH015IU	Physics 3	3
PH016IU	Physics 3 Laboratory	1

**Semester 4**

CE103IU	Computer-Aided Design and Drafting (CADD)	3
CE104IU	Practice CADD	1
CE209IU	Structural Analysis 1	2
CE208IU	Mechanics of Materials 2	2
CE210IU	Construction Materials	3
CE205IU	Fluid Mechanics	2
CE206IU	Fluid Mechanics Laboratory	1
PE008IU	Critical Thinking	3
CE204IU	Civil Architecture	2
CE215IU	Applied Linear Algebra	2

**Total Credits 22****Total Credits 21****Summer Semester 2**

MP001IU Military Training

**Junior Year****Semester 5**

CE213IU	Computational Methods for Civil Engineering	3
CE301IU	Structural Analysis 2	3
CE211IU	Hydrology- Hydraulics	3
CE302IU	Soil Mechanics	3
CE303IU	Soil Mechanics Laboratory	1
CE305IU	Steel Structures	3
CE304IU	Reinforced concrete 1	3
CE216IU	Probability and Statistics	3

**Semester 6**

CE307IU	Surveying	2
CE308IU	Surveying Practice	1
CE310IU	Reinforced Concrete 2	3
CE309IU	Foundation Engineering	3
CE313IU	Reinforced Concrete Project	1
CE312IU	Steel Structure Project	1
CE311IU	Construction Engineering	3
__ _IU	IU Free Elective	3
CE_ _ _	CE Elective	3

**Total Credits 19****Total Credits 20****Summer Semester 3**

CE314IU	Summer Internship	3
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**Senior Year****Semester 7**

CE306IU	Water Supply and Sewerage	3
CE401IU	Construction Management	3
CE_ _ _	CE Elective	3
CE_ _ _	CE Elective	3
CE402IU	Foundation Project	1
CE403IU	Construction Project	1
CM204IU	Laws and Professional Ethics	3

**Semester 8**

__ _IU	IU Free Elective	3
CE420IU	GRADUATION THESIS	10

<i>Total Credits</i>	<b>17</b>	<i>Total Credits</i>	<b>13</b>
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**Total Credits: 172****IU CE CURRICULUM – ENGLISH LEVEL 3 (TOEFL < 418) OR TOEFL iBT <35****Freshman Year**

<i>Semester 1</i>			<i>Semester 2</i>		
EN072IU,	IE1	22	EN074IU,	IE2	16
EN073IU			EN075IU		
PT001IU	Physical Training 1	3	MA001IU	Calculus 1	4
			PT002IU	Physical Training 2	3
<i>Total Credits</i>			<i>Total Credits</i>		
<b>25</b>			<b>23</b>		

**Summer Semester 1**

Political Education:

1. PE015IU Philosophy of Marxism and Leninism (3)
2. PE016IU Political economics of Marxism and Leninism (2) **11**
3. EN007IU Writing AE1 (2)
4. EN008IU Listening AE1 (2)
5. PH013IU Physics 1 (2)

**Sophomore Year**

<i>Semester 3</i>			<i>Semester 4</i>		
PE017IU	Scientific socialism	2	EN011IU	Writing AE2	2
PE018IU	History of Vietnamese Communist Party	2	EN012IU	Speaking AE2	2
PE019IU	Ho Chi Minh's Thoughts	2	PH015IU	Physics 3	3
MA003IU	Calculus 2	4	PH016IU	Physics 3 Laboratory	1
PH014IU	Physics 2	2	MA024IU	Differential Equations	4
CH011IU	Chemistry for Engineer	3	CE203IU	Engineering Mechanics - Dynamics	3
CE101IU	Engineering Mechanics - static	3	CE201IU	Mechanics of Materials 1	2
CE102IU	Introduction to Computing for Engineers	3	CE202IU	Mechanics of Materials Laboratory	1
CE100IU	Introduction to Civil Engineering	1	CH012IU	Chemistry Laboratory	1
			CE103IU	Computer-Aided Design and Drafting	3
			CE104IU	Practice CADD	1
<i>Total Credits</i>			<i>Total Credits</i>		
<b>22</b>			<b>23</b>		

**Summer Semester 2**

Military Training

<i>Semester 5</i>			<i>Semester 6</i>		
CE213IU	Computational Methods for Civil Engineering	3	CE301IU	Structural Analysis 2	3
CE208IU	Mechanics of Materials 2	2	CE211IU	Hydrology- Hydraulics	3
CE209IU	Structural Analysis 1	2	CE302IU	Soil Mechanics	3
CE210IU	Construction Materials	3	CE303IU	Soil Mechanics Laboratory	1
CE205IU	Fluid Mechanics	2	CE304IU	Reinforced concrete 1	3
CE206IU	Fluid Mechanics Laboratory	1	CE307IU	Surveying	2
CE204IU	Civil Architecture	2	CE308IU	Surveying Practice	1
PE008IU	Critical Thinking	3	CE305IU	Steel Structures	3
CE215IU	Applied Linear Algebra	2	CE216IU	Probability and Statistics	3
<i>Total Credits</i>			<i>Total Credits</i>		
<b>20</b>			<b>22</b>		

**Summer Semester 3****Junior Year**

<i>Semester 7</i>			<i>Semester 8</i>		
CE309IU	Foundation Engineering	3	CE306IU	Water Supply and Sewerage	3
CE310IU	Reinforced Concrete 2	3	CE402IU	Foundation Project	1
CE312IU	Steel Structure Project	1	CE403IU	Construction Project	1
CE_ _ _	CE Elective	3	CE401IU	Construction Management	3
_ _ _ IU	IU Free Elective	3	CE_ _ _	CE Elective	3
CE311IU	Construction Engineering	3	CE_ _ _	CE Elective	3
CE313IU	Reinforced Concrete Project	1	CM204IU	Laws and Professional Ethics	3
<i>Total Credits</i>			<i>Total Credits</i>		
<b>17</b>			<b>17</b>		

**Summer Semester 4**

CE314IU Summer Internship

**3**

<i>Semester 9</i>		
_ _ _ IU	IU Free Elective	3
CE420IU	Graduation Thesis	10
<i>Total Credits</i>		
<b>13</b>		

**Total credits: 194**

**CE Elective**

<b>S. ID</b>	<b>Subject Name</b>	<b>Credit</b>
CE404IU	Dynamics of Structures	3
CE405IU	Hydraulic Structures	3
CE406IU	Bridges Engineering	3
CE407IU	Tall Buildings	3

CE408IU	Introduction to Building Facilities	3
CE409IU	Transportation Engineering and Planning	3
CE410IU	Highway Engineering	3
CE411IU	Urban Engineering	3

**IU Elective**

<b>No</b>	<b>S. ID</b>	<b>Subject Name</b>	<b>Credit</b>
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	BA167IU	Introduction to Vietnamese Legal System	3
11	BA169IU	Management Information Systems	3
12	BA120IU	Business Computing Skills	3
13	BA115IU	Introduction to Business Administration	3
14	IS019IU	Production Management	3
15	IS026IU	Project Management	3
16	IT063IU	Theoretical Models in Computing	4
17	IT091IU	Computer Networks	4
18	IT094IU	Information System Management	4