# DISTRIBUTION OF CIVIL ENGINEERING CURRICULUM\_BATCH (2024)

**LEVEL AE1**

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| --- |
| **Freshman Year** |
| ***Semester 1*** | ***Semester 2*** |
| EN007IUEN008IU | Writing AE1 Listening AE1  | 22 | EN011IUEN012IU | Writing AE2 Speaking AE2  | 22 |
| MA001IU | Calculus 1 | 4 | CE100IU  | Introduction to Civil Engineering | 1 |
| PH013IU | Physics 1 | 2 | MA003IU | Calculus 2  | 4 |
| CH011IU | Chemistry for Engineer | 3 | PH014IU | Physics 2 | 2 |
| CE101IU | Engineering Mechanics -Statics | 3 | CH012IU | Chemistry Laboratory | 1 |
| PT001IU | Physical Training 1 | 3 | CE102IU | Introduction to Computing for Engineers | 3 |
|  |  |  | PT002IU | Physical Training 2 | 3 |
| ***Total Credits*** | **19** | ***Total Credits*** | **18** |
| ***Summer Semester 1*** |
| PH015IU Physics 3 (3) | **8** |  |
| PH016IU Physics 3 Laboratory (1) |
| MA024IU Differential Equations (4) |
| **Sophomore Year** |
| ***Semester 3*** | ***Semester 4*** |
| PE015IU | Philosophy of Marxism and Leninism  | 3 | PE017IU | Scientific Socialism | 2 |
| PE016IU | Political Economics of Marxism and Leninism | 2 | CE208IU | Mechanics of Materials 2 | 2 |
| CE103IU | Computer-Aided Design and Drafting (CADD) | 3 | CE209IU | Structural Analysis 1 | 2 |
| CE104IU | Computer-Aided Design and Drafting Practice | 1 | CE205IU | Fluid Mechanics | 2 |
| CE201IU | Mechanics of Materials 1 | 2 | CE206IU | Fluid Mechanics Lab | 1 |
| CE202IU | Mechanics of Materials Laboratory | 1 | CE214IU | Civil Architecture | 2 |
| CE210IU | Construction Materials | 3 | CE216IU | Probability and Statistics | 3 |
| CE213IU | Computational Methods for Civil Engineering | 3 | CE215IU | Applied Linear Algebra | 2 |
| ***Total Credits*** | **18** | ***Total Credits*** | **16** |
| ***Summer Semester 2*** |
| MP001IU Military Training |  |  |
| **Junior Year** |
| ***Semester 5*** | ***Semester 6*** |
| 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 | CE313IU | Reinforced Concrete Project | 1 |
| CE217IU | AI in Civil Engineering and Construction management | 3 | CE312IU | Steel Structure Project | 1 |
|  |  |  | CE311IU | Construction Engineering | 3 |
|  |  |  | PE019IU | Ho Chi Minh’s Thoughts | 2 |
|  | ***Total Credits*** | **16** |  | ***Total Credits*** | **16** |
| ***Summer Semester 3*** |
| CE314IU Internship  | **3** |  |  |
| **Senior Year** |
| ***Semester 7*** | ***Semester 8*** |
| CE401IU | Construction Management | 3 | CE\_ \_ \_ | CE Elective | 3 |
| CE211IU | Hydrology- Hydraulics | 3 | PE018IU | History of Vietnamese Communist Party | 2 |
| CE402IU | Foundation Project | 1 | CE\_ \_ \_ | CE Elective | 3 |
| CE403IU | Construction Project | 1 | CE306IU | Water Supply and Sewerage | 3 |
| PE021IU | General Law | 3 | \_ \_ \_IU | IU Elective | 3 |
| \_ \_ \_IU | IU Elective | 3 | PE022IU | Engineering Ethics and Critical Thinking | 3 |
| CE\_ \_ \_ | CE Elective | 3 |  |  |  |
| ***Total Credit*** | **17** | ***Total Credits*** | **17** |
| ***Semester 9*** |
| CE420IU | Graduation Thesis | **10** |  |

***Total credits: 152 (not including Physical Trainings and Intensive English)***

**LEVEL IE2**

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| --- |
| **Freshman Year** |
| ***Semester 1*** | ***Semester 2*** |
| ENTP02 | IE2  | 13 | EN007IU | Writing AE1  | 2 |
| MA001IU | Calculus 1 | 4 | EN008IU  | Listening AE1 | 2 |
| PH013IU | Physics 1 | 2 | PH014IU | Physics 2  | 2 |
| PT001IU | Physical Training 1 | 3 | CH011IU | Chemistry for Engineer | 3 |
|  |  |  | CE101IU | Engineering Mechanics -Statics | 3 |
|  |  |  | CE102IU | Introduction to Computing for Engineers | 3 |
|  |  |  | MA003IU | Calculus 2 | 4 |
| ***Total Credits*** | **22** | ***Total Credits*** | **19** |
| ***Summer Semester 1*** |
| EN011IU | Writing AE2 (2) | **10** |  |
| EN012IU | Speaking AE2 (2) |
| PE015IU | Philosophy of Marxism and Leninism (3) |
| PH015IU | Physics 3 (3) |
| **Sophomore Year** |
| ***Semester 3*** | ***Semester 4*** |
| PH016IU | Physics 3 Laboratory | 1 | CE213IU | Computational Methods for Civil Engineering | 3 |
| MA024IU | Differential Equations | 4 | PE016IU | Political Economics of Marxism and Leninism | 2 |
| CH012IU | Chemistry Laboratory | 1 | CE208IU | Mechanics of Materials 2 | 2 |
| CE103IU | Computer-Aided Design and Drafting | 3 | CE209IU | Structural Analysis 1 | 2 |
| CE104IU | Computer-Aided Design and Drafting Practice | 1 | CE205IU | Fluid Mechanics | 2 |
| CE201IU | Mechanics of Materials 1 | 2 | CE206IU | Fluid Mechanics Lab | 1 |
| CE202IU | Mechanics of Materials Lab | 1 | CE214IU | Civil Architecture | 2 |
| PT002IU | Physical Training 2 | 3 | CE216IU | Probability and Statistics | 3 |
| CE100IU | Introduction to Civil Engineering | 1 | CE215IU | Applied Linear Algebra | 2 |
| ***Total Credits*** | **17** | ***Total Credits*** | **19** |
| ***Summer Semester 2*** |
| MP001IU Military Training |  |  |
| **Junior Year** |
| ***Semester 5*** | ***Semester 6*** |
| CE301IU | Structural Analysis 2 | 3 | PE017IU | Scientific Socialism | 2 |
| CE210IU | Construction Materials | 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 | CE313IU | Reinforced Concrete Project | 1 |
| CE217IU | AI | 3 | CE312IU | Steel Structure Project | 1 |
|  |  |  | CE311IU | Construction Engineering | 3 |
|  |  |  | PE019IU | Ho Chi Minh’s Thoughts | 2 |
|  | ***Total Credits*** | **19** |  | ***Total Credits*** | **18** |
| ***Summer Semester 3*** |
| CE314IU Internship  | **3** |  |  |
| **Senior Year** |
| ***Semester 7*** | ***Semester 8*** |
| CE401IU | Construction Management | 3 |  CE\_ \_ \_ | CE Elective | 3 |
| CE211IU | Hydrology- Hydraulics | 3 |  CE\_ \_ \_ | CE Elective | 3 |
| CE402IU | Foundation Project | 1 | CE306IU | Water Supply and Sewerage | 3 |
| CE403IU | Construction Project | 1 | \_ \_ \_IU | IU Elective | 3 |
| PE021IU | General Law | 3 | PE018IU | History of Vietnamese Communist Party | 2 |
| \_ \_ \_IU | IU Elective | 3 | PE022IU | Engineering Ethics and Critical Thinking | 3 |
| CE\_ \_ \_ | CE Elective | 3 |   |  |  |
| ***Total Credit*** | **17** | ***Total Credits*** | **17** |
| ***Semester 9*** |
| CE420IU | Graduation Thesis | **10** |  |

***Total credits: 152 (not including Physical Trainings and Intensive English)***

**LEVEL IE1**

|  |
| --- |
| **Freshman Year** |
| ***Semester 1*** | ***Semester 2*** |
| ENTP01 | IE1 | 17 | EN007IU | Writing AE1 | 2 |
| ENTP02 | IE2 | 13 | EN008IU | Listening AE1 | 2 |
|  |  |  | MA001IU | Calculus 1 | 4 |
|  |  |  | PH013IU | Physics 1 | 2 |
|  |  |  | CE100IU | Introduction to Civil Engineering | 1 |
|  |  |  | PT001IU | Physical Training 1 | 3 |
|  |  |  | CE101IU | Engineering Mechanics -Statics | 3 |
|  |  |  | CE102IU | Introduction to Computing for Engineers | 3 |
| ***Total Credits*** | **30** | ***Total Credits*** | **20** |
| ***Summer Semester 1*** |
| MA003IU | Calculus 2 (4) | **11** |  |
| PE015IU | Philosophy of Marxism and Leninism (3) |
| EN011IU | Writing AE2 (2) |
| EN012IU | Speaking AE2 (2) |
| **Sophomore Year** |
| ***Semester 3*** | ***Semester 4*** |
| MA024IU | Differential Equations | 4 | PH015IU | Physics 3 | 3 |
| PH014IU | Physics 2 | 2 | PH016IU | Physics 3 Laboratory | 1 |
| CH011IU | Chemistry for Engineer | 3 | CE208IU | Mechanics of Materials 2 | 2 |
| CH012IU | Chemistry Laboratory | 1 | CE209IU | Structural Analysis 1 | 2 |
| CE103IU | Computer-Aided Design and Drafting | 3 | CE205IU | Fluid Mechanics | 2 |
| CE104IU | Computer-Aided Design and Drafting Practice | 1 | CE206IU | Fluid Mechanics Lab | 1 |
| CE201IU | Mechanics of Materials 1 | 2 | CE214IU | Civil Architecture | 2 |
| CE202IU | Mechanics of Materials Lab | 1 | CE213IU | Computational Methods for Civil Engineering | 3 |
| PT002IU | Physical Training 2 | 3 | CE215IU | Applied Linear Algebra | 2 |
| ***Total Credits*** | **20** | ***Total Credits*** | **18** |
| ***Summer Semester 2*** |
| MP001IU Military Training |  |  |
| **Junior Year** |
| ***Semester 5*** | ***Semester 6*** |
| CE301IU | Structural Analysis 2 | 3 | PE017IU | Scientific Socialism | 2 |
| PE016IU | Political Economics of Marxism and Leninism | 2 | CE307IU | Surveying | 2 |
| CE210IU | Construction Materials | 3 | CE308IU | Surveying Practice | 1 |
| CE302IU | Soil Mechanics | 3 | CE309IU | Foundation Engineering | 3 |
| CE303IU | Soil Mechanics Laboratory | 1 | CE310IU | Reinforced Concrete 2 | 3 |
| CE304IU | Reinforced concrete 1 | 3 | CE313IU | Reinforced Concrete Project | 1 |
| CE305IU | Steel Structures | 3 | CE312IU | Steel Structure Project | 1 |
| CE216IU | Probability and Statistics | 3 | CE311IU | Construction Engineering | 3 |
|  |  |  | CE217IU | AI | 3 |
|  | ***Total Credits*** | **21** |  | ***Total Credits*** | **19** |
| ***Summer Semester 3*** |
| CE314IU Internship  | **3** |  |  |
| **Senior Year** |
| ***Semester 7*** | ***Semester 8*** |
| CE401IU | Construction Management | 3 |  CE\_ \_ \_ | CE Elective | 3 |
| CE211IU | Hydrology- Hydraulics | 3 |  CE\_ \_ \_ | CE Elective | 3 |
| CE402IU | Foundation Project | 1 | CE306IU | Water Supply and Sewerage | 3 |
| CE403IU | Construction Project | 1 | \_ \_ \_IU | IU Elective | 3 |
| PE021IU | General Law | 3 | PE019IU | Ho Chi Minh’s Thoughts | 2 |
| PE018IU | History of Vietnamese Communist Party | 2 | PE022IU | Engineering Ethics and Critical Thinking | 3 |
| \_ \_ \_IU | IU Elective | 3 |   |  |  |
| CE\_ \_ \_ | CE Elective | 3 |  |  |  |
| ***Total Credit*** | **19** | ***Total Credits*** | **17** |
| ***Semester 9*** |
| CE420IU | Graduation Thesis | **10** |  |

***Total credits: 152 (not including Physical Trainings and Intensive English)***

**LEVEL IE0**

|  |
| --- |
| **Freshman Year** |
| ***Semester 1*** | ***Semester 2*** |
| ENTP00 | IE0 | 17 | ENTP02 | IE2 | 13 |
| ENTP01 | IE1 | 17 | MA001IU | Calculus 1 | 4 |
|  |  |  | PH013IU | Physics 1 | 2 |
|  |  |  | PT001IU | Physical Training 1 | 3 |
| ***Total Credits*** | **34** | ***Total Credits*** | **19** |
| ***Summer Semester 1*** |
| EN007IU | Writing AE1 (2) | **8** |  |
| EN008IU | Listening AE1 (2) |
| MA003IU | Calculus 2 (4) |
| **Sophomore Year** |
| ***Semester 3*** | ***Semester 4*** |
| EN011IU | Writing AE2 | 2 | PH015IU | Physics 3 | 3 |
| EN012IU | Speaking AE2 | 2 | PH016IU | Physics 3 Laboratory | 1 |
| CE100IU | Introduction to Civil Engineering | 1 | PE018IU | History of Vietnamese Communist Party | 2 |
| PE015IU | Philosophy of Marxism and Leninism | 3 | PE019IU | Ho Chi Minh’s Thoughts | 2 |
| PE016IU | Political Economics of Marxism and Leninism | 2 | CE103IU | Computer-Aided Design and Drafting | 3 |
| PH014IU | Physics 2 | 2 | CE104IU | Computer-Aided Design and Drafting Practice | 1 |
| CH011IU | Chemistry for Engineer | 3 | MA024IU | Differential Equations | 4 |
| CE101IU | Engineering Mechanics -Statics | 3 | CE201IU | Mechanics of Materials 1 | 2 |
| PT002IU | Physical Training 2 | 3 | CE202IU | Mechanics of Materials Lab | 1 |
| ***Total Credits*** | **18** | ***Total Credits*** | **19** |
| ***Summer Semester 2*** |
| MP001IU Military Training |  |  |
| **Junior Year** |
| ***Semester 5*** | ***Semester 6*** |
| CE213IU | Computational Methods for Civil Engineering | 3 | CE215IU | Applied Linear Algebra | 2 |
| CE208IU | Mechanics of Materials 2 | 2 | CE301IU | Structural Analysis 2 | 3 |
| CE209IU | Structural Analysis 1 | 2 | CE302IU | Soil Mechanics | 3 |
| CE205IU | Fluid Mechanics | 2 | CE303IU | Soil Mechanics Laboratory | 1 |
| CE206IU | Fluid Mechanics Lab | 1 | CE304IU | Reinforced concrete 1 | 3 |
| CE102IU | Introduction to Computing for Engineers | 3 | CE305IU | Steel Structures | 3 |
| CE214IU | Civil Architecture | 2 | PE017IU | Scientific Socialism | 2 |
| CE216U | Probability and Statistics | 3 |  |  |  |
| CH012IU | Chemistry Laboratory | 1 |  |  |  |
|  | ***Total Credits*** | **19** |  | ***Total Credits*** | **17** |
| ***Summer Semester 3*** |
| CE314IU Internship  | **3** |  |  |
| **Senior Year** |
| ***Semester 7*** | ***Semester 8*** |
| CE210IU | Construction Materials | 3 | CE307IU | Surveying | 2 |
| CE211IU | Hydrology- Hydraulics | 3 | CE308IU | Surveying Practice | 1 |
| CE309IU | Foundation Engineering | 3 | CE217IU | Artificial Intelligence in Civil Engineering and Construction Management | 3 |
| CE310IU | Reinforced Concrete 2 | 3 | CE311IU | Construction Engineering | 3 |
| CE312IU | Steel Structure Project | 1 | CE306IU | Water Supply and Sewerage | 3 |
| CE313IU | Reinforced Concrete Project | 1 | CE402IU | Foundation Project | 1 |
| PE021IU | General Law | 3 | CE403IU | Construction Project | 1 |
|  |  |  | CE\_ \_ \_ | CE Elective | 3 |
| ***Total Credit*** | **17** | ***Total Credits*** | **17** |
| ***Semester 9*** | ***Semester 10*** |
| CE401IU | Construction Management | 3 | CE420IU | Graduation Thesis | 10 |
| CE\_ \_ \_ | CE Elective | 3 |  |
| CE\_ \_ \_ | CE Elective | 3 |
| \_ \_ \_IU | IU Elective | 3 |
| \_ \_ \_IU | IU Elective | 3 |
| PE022IU | Engineering Ethics and Critical Thinking | 3 |
| ***Total Credit*** | **18** | ***Total Credits*** | **10** |

***Total credits: 152 (not including Physical Trainings and Intensive English)***