**3+1+1(4+1+1) MSCE at Civil Engineering – Structural Engineering Track**

**(First Year – Preparation for MSCE Program)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1st Quarter (Fall) | | 2nd Quarter (Winter) | | 3rd Quarter (Spring) | |
| Course | **Units** | **Course** | **Units** | **Course** | **Units** |
| College English Class | 3 | College English Class | 2 | College English Class | 2 |
| CE491  Comprehensive Civil Engineering Design I | 1 | CE492  Comprehensive Civil Engineering Design II | 2 | College English Class | 2 |
| CE304\*  Structural Analysis I | 4 | CE406\*  Structural Design - Steel | 4 | CE493  Comprehensive Civil Engineering Design III | 1 |
| CE305\*  Structural Analysis II | 4 | CE 445\*  Earthquake Engineering | 4 | CE421\*  Structural Design – Reinforced Concrete | 4 |
| CE305L\*  Structural Design Lab | 1 |  |  | CE 517\*  Advanced Steel Design | 4 |

\* Subject to change

12 Units from CE445\*, CE406\* and CE517\* will be considered in MSCE Program

**3+1+1 (4+1+1) MSCE at Civil Engineering – Structural Engineering Track**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1st Quarter (Summer) | | 2nd Quarter (Fall) | | 3rd Quarter (Winter) | | 4th Quarter (Spring) | | | | |
| Course | **Units** | **Course** | **Units** | **Course** | **Units** | | **Course** | **Units** | |
| CE 518\*  Stability of Structures | 4 | CE501\*  Advanced Engineering Math | 4 | CE 521\*  Structural Dynamics | 4 | | CE 526\*  Finite Element Analysis | | 4 |
| CE 528\*  Earthquake-Resistant Design | 4 | CE 522\*  Advanced Reinforced Concrete Design | 4 | CE 510\*  Theory of Plates and Shells | 4 | | CE 599\*  Advanced Timber Design | | 4 |
|  |  |  |  |  |  | | CE 697  Comprehensive Exam | | 1 |

\* Subject to change

Total 45 Units