**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 | CE492Comprehensive Civil Engineering Design II | 2 | College English Class | 2 |
| CE304\* Structural Analysis I | 4 | CE406\*Structural Design - Steel | 4 | CE493Comprehensive 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