

Master in Civil Engineering (Geotechnical)

| Prog | CCMT Code | Group | Sem | Course code | Course Title | L | T | P | Credits | FM |
|--------------------------|-------------|-------------|----------|--------------|---|-----------|----------|-----------|-----------|-------------|
| CEPG | CEGE | Core | 1 | CE731 | Advanced Foundation Engineering | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | Core | 1 | CE732 | Geotechnical Investigations and Ground Improvement Techniques | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-1 | 1 | CE6xx | Elective – I | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-2 | 1 | CE6xx | Elective – II | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-3 | 1 | CE6xx | Elective – III / Open Elective | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | Lab | 1 | CE681 | Advanced Civil Engineering Lab -I | 0 | 0 | 6 | 4 | 100 |
| CEPG | CEGE | | 1 | | Total Semester Credit | 15 | | 6 | 19 | 600 |
| CEPG | CEGE | Core | 2 | CE733 | Rock Mechanics and Tunnel Engineering | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-4 | 2 | CE6xx | Elective – IV | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-5 | 2 | CE6xx | Elective – V | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-6 | 2 | CE6xx | Elective – VI | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-7 | 2 | CE6xx | Elective – VII / Open Elective | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | Lab | 2 | CE686 | Advanced Civil Engineering Lab - II | 0 | 0 | 3 | 2 | 100 |
| CEPG | CEGE | Lab | 2 | CE690 | Seminar | 0 | 0 | 6 | 4 | 100 |
| CEPG | CEGE | | 2 | | Total Semester Credit | 15 | | 9 | 21 | 700 |
| | | | | | | | | | | |
| CEPG | CEGE | Lab | 3 | CE691 | Seminar and Comprehensive Viva - I | 0 | 0 | 3 | 2 | 100 |
| CEPG | CEGE | Lab | 3 | CE692 | Dissertation (to be continued in 4 th Sem) | 0 | 0 | 12 | 8 | 100 |
| CEPG | CEGE | | 3 | | Total Semester Credit | | | 15 | 10 | 200 |
| CEPG | CEGE | Lab | 4 | CE693 | Seminar and Comprehensive Viva - II | 0 | 0 | 3 | 2 | 100 |
| CEPG | CEGE | Lab | 4 | CE694 | Dissertation | 0 | 0 | 15 | 10 | 100 |
| CEPG | CEGE | | 4 | | Total Semester Credit | | | 18 | 12 | 200 |
| CEPG | CEGE | | | | Cumulative Total Credit | | | | 62 | 1700 |
| List of Electives | | | | | | | | | | |
| CEPG | CEGE | EL-x | | CE617 | Optimization Techniques in Civil Engineering | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE734 | Soil Stabilization | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE735 | Earth Pressure and Retaining structures | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE737 | Earth and Rock-fill Dams | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE738 | Soil Structure Interaction | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE739 | Geo-environmental Engineering | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE740 | Soil Dynamics and Geotechnical Earthquake Engineering | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE741 | Reinforced Earth and Geotextiles | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE742 | Continuum Mechanics | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | CE743 | Slope Stability and Earthen Dams | 3 | 0 | 0 | 3 | 100 |
| CEPG | CEGE | EL-x | | MA604 | Probability and Statistics | 3 | 0 | 0 | 3 | 100 |