

Engineering

Dept. of Civil Engineering



| Title | Credits |
|--|---------|
| Advanced Material Mechanics | 3 |
| Finite Element Method | 3 |
| Advanced Geotechnology | 3 |
| Advanced Soil Mechanics | 3 |
| Advanced Foundation Engineering | 3 |
| Advanced Construction Technology | 3 |
| Advanced Hydraulics | 3 |
| Water Quality Management | 3 |
| Advanced City Planning | 3 |
| Advanced Surveying | 3 |
| Theory of Elasticity | 3 |
| Advanced Reinforced Concrete Engineering | 3 |
| Advanced Concrete Engineering | 3 |
| Theory of Structure Design | 3 |
| Advanced Structure Analysis | 3 |
| Advanced Steel Structures | 3 |
| Theoretical Soil Mechanics | 3 |
| Theoretical Foundation Engineering | 3 |
| Advanced Tunnel Engineering | 3 |
| Theory of Construction Management | 3 |
| Applied Soil Testing | 3 |
| Advanced Special Foundation | 3 |
| Advanced Rock Engineering | 3 |
| Theory of Value Engineering & LCC | 3 |
| Theoretical Hydrology | 3 |
| Advanced River Engineering | 3 |
| Advanced Harbor Engineering | 3 |
| Advanced Sanitary Engineering | 3 |
| Advanced Water Supply | 3 |
| Design of Water Treatment Plant I | 3 |
| Land Using Planning | 3 |
| Site Planning | 3 |
| Urban Landscape Design | 3 |

| Title | Credits |
|--|---------|
| Advanced Photogrammetry | 3 |
| Advanced Geodesy | 3 |
| Reliability Approach of Structure | 3 |
| Advanced Prestressed Concrete Engineering | 3 |
| Structure Dynamics | 3 |
| Fatigue and Fracture in Steel Bridge | 3 |
| Optimum Design | 3 |
| Structure Stability | 3 |
| Theory of Slope Stability | 3 |
| Theory of Foundation Design | 3 |
| Soil Dynamics | 3 |
| Theory of Project Management | 3 |
| Theory of Soil Behaviour | 3 |
| Theory of Substructures | 3 |
| Geoenvironmental Engineering | 3 |
| Theory of Project Scheduling & Management | 3 |
| Advanced Geotechnical Engineering | 3 |
| Theory of Soil Reinforcement | 3 |
| Theory of Cost Estimating & Management | 3 |
| Theory of Construction Quality & Risk Management | 3 |
| Advanced Water Resources Engineering | 3 |
| Open Channel Hydraulics | 3 |
| Pipe Channel Hydraulics | 3 |
| Advanced Wastewater Treatment | 3 |
| Industrial Wastewater Treatment | 3 |
| Design of Water Treatment Plant II | 3 |



| Title | Credits |
|-------------------------------|---------|
| Urban Transportation Planning | 3 |
| Advanced National Planning | 3 |
| Urban Renewal | 3 |
| Advanced Cadastral Surveying | 3 |
| Analytical Photogrammetry | 3 |
| Advanced Cartography | 3 |
| Geo-Spatial Informatics | 3 |

