

Department of

The Department of Civil Engineering aims to develop and educate core components and high-tech materials used for electricity, electronics, semiconductors, the environment, energy, and other forms of extreme structures.

Information

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Professor Introduction

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Curriculum

Course Code	Course Title	Credit
561.516	Advanced Applied Mathematics	3-3-0
561.62	Statistical Experimental Design	3-3-0
561.718	Advanced Numerical Analysis	3-3-0
561.501	Theory of Elasticity	3-3-0
561.502	Advanced Strength of Materials	3-3-0
561.508	Hydrodynamics	3-3-0
561.509	Water Wave Mechanics	3-3-0
561.511	Groundwater Flow	3-3-0
561.512	Design of Reinforced Concrete Structures	3-3-0
561.514	Advanced Wastewater Treatment	3-3-0
561.515	Advanced Environment Microbiology	3-3-0
561.602	Open Channel Hydraulics	3-3-0
561.603	Sediment Transport Hydraulics	3-3-0
561.604	Urban Hydrology	3-3-0
561.605	Computational Hydraulics	3-3-0
561.606	Hydrologic Analysis and Modeling	3-3-0
561.608	Advanced Coastal Engineering	3-3-0
561.61	Advanced Theory of Concrete Structures	3-3-0
561.611	Design of Prestressed Concrete	3-3-0
561.617	Advanced Concrete Material Engineering	3-3-0
561.627	Design of Steel Structures	3-3-0
561.628	Fracture Mechanics	3-3-0
561.629	Reliability Analysis of Structures	3-3-0
561.63	Concrete Technology	3-3-0
561.631	Advanced Hydrology	3-3-0
561.632	Advanced River Engineering	3-3-0
561.636	Advanced Water Treatment Technology	3-3-0
561.638	Advanced Waste Treatment Technology	3-3-0
561.639	Advanced Water Treatment System Modeling	3-3-0
561.64	Advanced Soil Environmental Engineering	3-3-0
561.643	Soil Dynamics	3-3-0
561.647	Environmental Hydraulics	3-3-0
561.649	Advanced Mechanics of Bridge	3-3-0
561.649	Advanced Mechanics of Bridge	3-3-0
561.65	Finite Element Method II	3-3-0
561.652	Advanced Pavement Material	3-3-0
561.653	Pavement Analysis and Design for Road and Airport	3-3-0

Course Code	Course Title	Credit
561.654	Stochastic Hydrology	3-3-0
561.655	Road Management System	3-3-0
561.656	Quality Management and Assurance for Earth Work and Road Construction	3-3-0
561.657	Constitutive Laws for Soil and Pavement Material	3-3-0
561.658	Advanced Infrastructure Engineering	3-3-0
561.659	Turbulent flow and Turbulence Modeling	3-3-0
561.66	Computational Fluid Dynamics	3-3-0
561.661	Coastal Hydraulics	3-3-0
561.662	Special Topics in Environmental Hydraulic Engineering	3-3-0
561.663	Advanced Concrete Engineering I	3-3-0
561.664	Advanced Concrete Engineering II	3-3-0
561.701	Soil Erosion Engineering	3-3-0
561.702	Fishway Hydraulics and Design	3-3-0
561.703	Design of Concrete Durability	3-3-0
561.705	Advanced Physico-Chemical wastewater Treatment Technology	3-3-0
561.706	Advanced Biological Wastewater Treatment Technology	3-3-0
561.707	Modern Highway Engineering	3-3-0
561.708	Soil Improvements	3-3-0
561.709	Subsoil Exploration	3-3-0
561.71	Modern Geotechnical Engineering	3-3-0
561.711	Advanced Mechanics of Composite Materials	3-3-0
561.712	Plastic Analysis & Design	3-3-0
561.714	Advanced Surveying Engineering	3-3-0
561.715	Advanced Digital Photogrammetry	3-3-0
561.716	Application of Remote Sensing	3-3-0
561.717	Theory of Geo-Spatial Information	3-3-0
561.719	Data Analysis for Civil Engineering	3-3-0
561.721	Critical state soil mechanics	3-3-0
561.722	Geoenvironmental Engineering	3-3-0
561.723	Civil geology	3-3-0
561.724	Exploration Geophysics	3-3-0
561.725	Unsaturated soil mechanics	3-3-0
561.726	Tunnel and blasting engineering	3-3-0
561.727	Numerical Analysis in Geostucture	3-3-0

Course Code	Course Title	Credit
561.728	New Road Technology	3-3-0
561.729	Finite Volume Method	3-3-0
561.73	Finite Element Method I	3-3-0
561.731	Advanced Structural Dynamics	3-3-0
561.732	Earthquake Engineering & Design	3-3-0
561.733	Computer Aided Structural Design	3-3-0
561.734	Advanced Structural Analysis	3-3-0
561.735	Railway Track Design	3-3-0
561.736	New Structural Maintenance Technology	3-3-0
561.737	Functional Performance of Pavement Engineering	3-3-0
561.738	Non-Newtonian Fluid Mechanics	3-3-0
561.739	Topographic Analysis	3-3-0
561.74	GPS Surveying	3-3-0
561.741	GIS Application	3-3-0
561.742	Image Processing	3-3-0
561.743	Advanced Pavement Engineering I	3-3-0
561.744	Advanced Pavement EngineeringII	3-3-0
561.745	Advanced Soil Mechanics I	3-3-0
561.746	Advanced Soil MechanicsII	3-3-0
561.747	Advanced Geotechnical Engineering I	3-3-0
561.748	Advanced Geotechnical EngineeringII	3-3-0
561.749	Atmospheric Hydrology	3-3-0
561.75	Technical writing	3-3-0