

### B.Tech- Civil Engineering

Foundation Courses	Core Courses		Elective Courses		
			Generic	Discipline	Open
Theory Courses	Theory Courses	Lab Courses	Elective G-1:	Elective D-1:	Elective O-1:
Applied Physics-I	Elements of Computer and Programming	Computer Programming Lab	Soft Skills-I	Open Channel Flow and Sediment Transport	Introduction to Wind Energy
Applied Maths-I	Elements of Electrical and Electronics Engineering	Computer Aided Drafting	French-I	Solid Waste Management	Measurements & Instrumentation lab
Industrial Chemistry	Applied Mechanics	Applied Mechanics Lab	German -I	Rock Mechanics	F.E.M. in Engineering Mechanics
Professional Communication - I	Construction Materials	Surveying –I Lab	<b>Elective G-2:</b>	Ground Water Engg	<b>Elective O-2:</b>
Applied Physics-II	Structural Analysis-I	Concrete Technology - Lab	Soft Skills-II	Advanced Concrete Technology	Project Management
Applied Maths-II	Building Construction	Civil Engineering Drawing	French-II	Traffic Planning and Design	Intellectual Property Rights
Environmental Studies	Surveying –I	Strength of Material Lab	German -II	Advanced Construction Materials	Aircraft Structures -I
Professional Communication - II	Concrete Technology	Surveying –II Lab		<b>Elective D-2:</b>	
Holistic Wellness & Life Skills - I	Strength of Materials	Structure - Lab		Applied Elasticity and Plasticity	
Quantitative Aptitude-I	Structural Analysis-II	Fluid Mechanics Lab		Advanced Construction Technology	
Quantitative Aptitude-II	Surveying –II	RCC Drawing		Formwork for Concrete structures	
Physics Lab	Design of Concrete structures-I	Transportation Engineering-I Lab		Disaster Management	
Chemistry Lab	Design of Steel structures-I	Computer Aided Design & Drafting -I Lab		Remote Sensing and GIS	
Workshop Practices - I	Engineering Geology	Soil Mechanics - Lab		Design of Steel structures-II	
Workshop Practices - II	Fluid Mechanics	Environmental Engineering Lab		Transportation Engineering –II	
Applied	Transportation	Soil Mechanics -		Ground	

Mathematics-III (For LEET Students)	Engineering-I	Lab		Improvement Techniques	
Applied Mathematics-IV (For LEET Students)	Water Supply & Treatment Plant	Engineering Geology Lab		<b>Elective D-3:</b>	
	Design of Concrete structure-II	Advanced Civil Engineering Lab		Structural Analysis III	
	Cyber Security	Project Phase - I		Numerical Methods in Civil Engineering	
	Irrigation Engineering –I	Project Phase - II		Project Planning & Management	
	Soil Mechanics	Industrial Training		Sustainable Materials and Green Buildings	
	Environmental Engineering			Advanced Foundation Engineering	
	Estimating and Costing			Environmental Air Pollution	
	Foundation Engineering			Building Code and Requirements	
	Earthquake Resistant Design of Structures			<b>Elective D-4:</b>	
				Structural Analysis IV	
				Town Planning	
				Planning for Sustainable Development	
				Non-Destructive testing	
				Infrastructure Development and Management	
				Advanced Traffic Engineering	
				Advanced Reinforced Concrete Design	
				Environmental Impact Assessment	

				and Audit	
				<b>Elective D-5:</b>	
				Basics of Finite Element Method	
				Geographical Information Systems	
				Bridge Engineering	
				Rural Technology and Community Development	
				Intellectual Property and Copy Rights	
				Hydrology	
				Structural System for Tall Buildings	
				Metro Rail Technology	
				<b>Elective D-6:</b>	
				Mechanics of Composite Materials	
				Advanced Waste Water Treatment	
				Design Of Foundation and Earth Retaining Structures	
				Prestressed Concrete	
				Alternative Building Technology	
				Structural Dynamics	
				Retrofitting of Structures	