



**Course Name: Advanced Structural Analysis**

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
PC1101SE.1	Analyse the continuous beams, rigid jointed frames and pin jointed structures by stiffness method.	ANALYZE
PC1101SE.2	Analyse the continuous beams, rigid jointed frames and pin jointed structures by flexibility method.	ANALYZE
PC1101SE.3	Formulate the element and global stiffness matrices by direct stiffness method and learn equation solution techniques.	APPLY
PC1101SE.4	Understand and differentiate between the linear and nonlinear analyses.	UNDERSTAND
PC1101SE.5	Solve the problems pertaining to beams on elastic foundation.	APPLY

**Course Name: Advanced Solid Mechanics**

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom/Taxonomy Level
PC1102SE.1	Solve the problems of 3-D elasticity with confidence.	ANALYZE
PC1102SE.2	Work independently with the problems of 2-D elasticity in Cartesian/polar coordinates.	UNDERSTAND
PC1102SE.3	Familiarize with the use of Airy's stress function in 2-D problems of elasticity in Cartesian/polar coordinates.	APPLY
PC1102SE.4	Equip with the knowledge of various theories of torsion of prismatic bars of various cross sections and can solve the problems of torsion.	UNDERSTAND
PC1102SE.5	Interpret and apply the theory of elasticity to practical problem of structural engineering	APPLY



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Course Name: **Research Methodology and IPR**

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
MC5121ME.1	Define research problem, review and assess the quality of literature from various sources	UNDERSTAND
MC5121ME.2	Improve the style and format of writing a report for technical paper/ Journal report, understand and develop various research designs	REMEMBER
MC5121ME.3	Collect the data by various methods: observation, interview, questionnaires	APPLY
MC5121ME.4	Analyse problem by statistical techniques: ANOVA, F-test, Chi-square.	ANALYZE
MC5121ME.5	Understand apply for patent and copyrights	UNDERSTAND

Course Name: **Advanced Reinforced Concrete Design**

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
PE1117SE.1	Analyse of beams curved in plan and deep beams. Design the beams curved in plan and deep beams.	ANALYZE
PE1117SE.2	Calculate stresses and forces in domes. Propose the deep beams, domes and various water tanks	CREATE
PE1117SE.3	Differentiate and design the bunkers and silos	EVALUATE
PE1117SE.4	Know the design principles and code provisions for designing of square and circular bunkers.	CREATE
PE1117SE.5	Know the design principles and code provisions for designing of square and circular bunkers.	CREATE
PE1117SE.6	Formulate the raft, pile and machine foundations	CREATE



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Course Name: **Design of Prestressed Concrete Structures**

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom Taxonomy Level
PC1127SE.1	Familiarize with fundamentals of pre-stressed concrete, methods and systems of pre-stressing and losses of prestress.	UNDERSTAND
PC1127SE.2	Analyse and design the sections for flexure, shear bond and anchorages.	ANALYZE
PC1127SE.3	Estimate the deflections of pre-stressed concrete elements.	ANALYZE
PC1127SE.4	Know the circular pre-stressing, analysis and design of statically indeterminate beams.	ANALYZE
PC1127SE.5	Able to design the compression & tension members using pre-stress methodology.	EVALUATE
PC1127SE.6	Solve the problems pertaining to axial members, slabs and grid floors.	APPLY



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Course Name: Disaster Management

YEAR & SEM: I & I - Sem

CE	Course Outcomes	Bloom/Taxonomy Level
AD9002CE.1	Understand the fundamentals of disaster maintenance and repair strategies.	UNDERSTAND
AD9002CE.2	Know the materials and techniques used for repair of Structures.	UNDERSTAND
AD9002CE.3	Decide the appropriate repair, strengthening.	APPLYING
AD9002CE.4	Know the Rehabilitation and Retrofitting techniques.	UNDERSTAND
AD9002CE.5	Description of flood mitigation, adjustment and regulation	APPLYING
AD9002CE.6	Knowledge of hydrological time series analysis	ANALYSING



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Course Name: **Seminar**

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
PC1154SE.1	Develop the habit of referring the journals for literature review.	REMEMBER
PC1154SE.2	Understand the gist of the research paper.	UNDERSTAND
PC1154SE.3	Identify the potential for further scope.	ANALYZE
PC1154SE.4	Present the work in an efficient manner.	APPLY
PC1154SE.5	Write the documentation in standard format.	CREATE

Course Name: **Structural Design Lab**

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom/Taxonomy Level
PC1151SE.1	Perform tests on different types of structures for different ground motions(earthquake data).	EVALUATE
PC1151SE.2	Analyze subsequent data and compare the results with theory.	UNDERSTAND