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Sy.No:32, Himayathsagar, Golconda Post, Near TSPA Junction, Hyderabad-500 091 Ph: 6309012442/43, Fax: 040-6625 3642, Website: www.lords.ac.in

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/Taxonom y 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 problems 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 asses 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	Design the beams curved in plan and deep beams.	ANALYZE
PE1117SE.2	Propose the deep beams, domes and various type water tanks	CREATE
PE1117SE.3	Differentiate and design the bunkers and silos.	EVALUATE
PE1117SE.4	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 pre- stress.	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	Learn to demonstrate a critical understanding of key concepts in disaster risk reduction and humanitarian response.	UNDERSTAND
AD9002CE.2	Critically evaluate disaster risk reduction and humanitarian response policy and Practice from multiple perspectives.	UNDERSTAND
AD9002CE.3	Develop an understanding of standards of humanitarian response and practical relevance in specific types of disasters and conflict situations.	UNDERSTAND
AD9002CE.4	Critically understand the strengths and weaknesses of disaster management approaches, planning and programming in different countries, particularly their home country or the countries they work in.	UNDERSTAND, ANALYZE



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Course Name: Advanced Concrete Lab

YEAR & SEM: I & I Sem

CE	Course Outcomes	Bloom/Taxonomy Level
PC1152SE.1	Understand the rheology of special Concrete- fly ash-based Concrete- geo-polymer Concrete and Fibre Reinforced Concrete.	UNDERSTAND
PC1152SE.2	High strength – Mix design	CREATE
PC1152SE.3	Conduct cube, cylinder strength and modulus of rupture of high strength	UNDERSTAND
PC1152SE.4	Conduct of NDT of concrete	APPLY

Course Name: Seminar

YEAR & SEM: I & I Sem

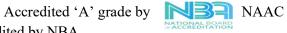
CE	Course Outcomes	Bloom/ Taxonomy Level
PC1154SE.1	Develop the habit of referring the journals for literature review.	REMEMBER
PC1154SE.2	Understand the gist of the research paper.	UNDERSTAND
PC1154SE.3	Identify the potential for further scope.	ANALYZE
PC1154SE.4	Present the work in an efficient manner.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

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Course Name: Structural Health Monitoring

YEAR & SEM: II & I Sem

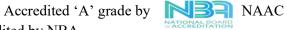
CE	Course Outcomes	Bloom/ Taxonomy Level
PC1121SE.1	Understand the fundamentals of maintenance and repair strategies.	UNDERSTAND
PC1121SE.2	Diagnose for serviceability and durability aspects of concrete.	EVALUATE
PC1121SE.3	Know the materials and techniques used for repair of structures.	UNDERSTAND
PC1121SE.4	Decide the appropriate repair, strengthening, rehabilitation and retrofitting technique required for a case study building.	EVALUATE
PC1121SE.5	Use an appropriate health monitoring technique and demolition technique.	APPLY

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Course Name: Major Project Phase – I YEAR & SEM: II & I Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
PC1156SE.1	Exposed to self-learning various topics.	UNDERSTAND
PC1156SE.2	Learn to survey the literature such as books, journals and contact resource persons for the selected topic of research.	UNDERSTAND
PC1156SE.3	Learn to write technical reports.	UNDERSTAND
PC1156SE.4	Develop oral and written communication skills to present.	APPLY
PC1156SE.5	Defend their work in front of technically qualified audience	APPLY

Course Name: Retrofitting and Rehabilitation of Structures

YEAR & SEM: II & I Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
PE1121SE.1	Understand the fundamentals of maintenance and repair strategies.	UNDERSTAND
PE1121SE.2	Diagnose for serviceability and durability aspects of concrete.	EVALUATE
PE1121SE.3	Know the materials and techniques used for repair of structures.	UNDERSTAND
PE1121SE.4	Decide the appropriate repair, strengthening, rehabilitation and retrofitting technique required for a case study building.	EVALUATE
PE1121SE.5	Use an appropriate health monitoring and demolition techniques.	APPLY