LORDS INSTITUTE OF ENGINEERING & TECHNOLOGY
Approved by AICTE/Affiliated to OU/Estd.2002.
Accredited 'A' grade by NAAC Accredited by NBA
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Course Name: **Finite Element Methods in Structural Engineering**

YEAR & SEM: I & II Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
PC1103SE.1	Build and analyse the FEA models for various engineering problems.	ANALYZE
PC1103SE.2	Identify the information requirements and sources for analysis, design and evaluation.	APPLY
PC1103SE.3	Use the standard finite element software to solve the structural engineering problems.	APPLY
PC1103SE.4	Interpret the results obtained from FEA software, not only in terms of conclusions but also awareness of limitations.	EVALUATE, UNDERSTAND
PC1103SE.5	To develop the ability to generate the governing FE equations for systems governed by partial differential equations	ANALYZE
PC1103SE.6	To understand the use of the basic finite elements for structural applications using truss, beam, frame, and plane elements	UNDERSTAND, EVALUATE

Course Name: **Structural Dynamics**

YEAR & SEM: I & II Sem

CE	Course Outcomes	Bloom/ Taxonomy Level
PC1104SE.1	Know the fundamental theory of dynamic equation of motions and analysis methods for dynamic systems.	UNDERSTAND
PC1104SE.2	Understand the modelling approach of dynamic response in civil engineering applications.	UNDERSTAND
PC1104SE.3	Create the simple computer models for engineering structures using knowledge of structural dynamics.	CREATE
PC1104SE.4	Evaluate the dynamic response analysis results and understand the possible error sources. Interpret the dynamic analysis results for design, analysis and research purposes.	EVALUATE
PC1104SE.5	Apply the structural dynamics theory to earthquake analysis, response, and design of structures.	APPLY

Course Name: **Advanced Concrete Technology**

YEAR & SEM: I & II Sem

CE	Course Outcomes	Bloom/ Taxonomy Leve
PE1125SE.1	Learn hydration of cement and tests on properties of cement and aggregates.	UNDERSTAND
PE1125SE.2	Comprehend the properties and testing of concrete in fresh and hardened state.	APPLY
PE1125SE.3	Understand the shrinkage and creep mechanisms, curing and durability of concrete.	UNDERSTAND
PE1125SE.4	Design concrete mixes by various methods.	CREATE
PE1125SE.5	Familiarize with the types of admixtures, and applications of special concretes.	UNDERSTAND

Course Name: **Industrial Safety**

YEAR & SEM: I & II Sem

CE	Course Outcomes	Bloom/Taxonomy Level
OE9105ME.1	Concepts of engineering systems safety	UNDERSTAND
OE9105ME.2	Identify the causes for industrial accidents and suggest preventive measures.	APPLY
OE9105ME.3	Identify the basic tools and requirements of different maintenance procedures.	APPLY
OE9105ME.4	Apply different techniques to reduce and prevent Wear and corrosion in Industry.	APPLY
OE9105ME.5	Identify different types of faults present in various equipment's like machine tools, IC Engines, boilers etc.	EVALUATE
OE9105ME.6	Apply periodic and preventive maintenance techniques as required for industrial equipment's like motors, pumps and air compressors and machine toolset.	APPLY

Course Name: **Constitution of India and Fundamental Rights**

YEAR & SEM: I & II Sem

CE	Course Outcomes	Bloom/Taxonomy Level
AD9011HS.1	Discuss the growth of the demand for civil rights in India for the bulk of Indians before the arrival of Gandhi in Indian politics.	UNDERSTAND
AD9011HS.2	Discuss the intellectual origins of the framework of argument that informed the conceptualization of social reforms leading to revolution in India.	APPLY
AD9011HS.3	Discuss the circumstances surrounding the foundation of the Congress Socialist Party [CSP] under the leadership of Jawaharlal Nehru and the eventual failure of the proposal of direct elections through adult suffrage in the Indian Constitution.	APPLY
AD9011HS.4	Discuss the passage of the Hindu Code Bill of 1956.	APPLY

Course Name: **Mini Project with Seminar**

YEAR & SEM: I & II Sem

CE	Course Outcomes	Bloom/Taxonomy Level
PC1155SE.1	Formulate a specific problem and give solution	EVALUATE
PC1155SE.2	Develop model/models either theoretical/practical/numerical form	CREATE
PC1155SE.3	Solve, interpret/correlate the results and discussions	ANALYZE
PC1155SE.4	Conclude the results obtained	ANALYZE
PC1155SE.5	Write the documentation in standard format	CREATE

Course Name: **Virtual Smart Structures and Dynamics Lab**

YEAR & SEM: I & II Sem

CE	Course Outcomes	Bloom/Taxonomy Level
PC1153SE.1	Understand the behaviour of structures subjected to dynamic loadings like wind, earthquake and blasting.	UNDERSTAND
PC1153SE.2	Understand the dynamic characteristics of structures instrumented with smart piezoelectric sensors.	UNDERSTAND
PC1153SE.3	Visualize shear lag effect and Rebar Corrosion	APPLY
PC1153SE.4	Draw response spectrum curve for given condition	APPLY
PC1153SE.5	Measure displacements using Photogrammetry	EVALUATE