

V Siddhartha Engineering College::Autonomous
Department of Mechanical Engineering

Date: 01-12-2023

NOTICE

The department of Mechanical Engineering is conducting GATE/Placement Preparation Training Classes for the 4/4 B.Tech students. Hence, students are requested to make use of the training programme.

Date	Time	Subject/Topics	Faculty
06-12-2023 Wednesday	2 PM-3PM	Metrology: Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly; concepts of coordinate-measuring machine (CMM)	Dr C. Naga Raju / Sri P.Satish Kumar Reddy
	3PM-5PM	CATIA Software	Dr K.Siva Prasad/ Dr C.Mahesh
07-12-2023 Thursday	2 PM-3PM	Machine Design I: Design for static and dynamic loading; failure theories; fatigue strength and the SN diagram; principles of the design of machine elements such as bolted, riveted and welded joints;	Dr. N. Ravi Kumar /Dr M. Balaji
	3PM-5PM	CATIA Software	Dr M.Bala Chennaih/ Sri Ch. Venkata Prasad
08-12-2023 Friday	2 PM-3PM	Machine Design II: Shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs.	Dr. M.Bala Chennaih /Dr M. Balaji
	3PM-5PM	CATIA Software	Dr V.Sridhar/ Dr B. Suprja Reddy
09-12-2023 Saturday	9 AM-10 AM	Casting and Joining Processes: Different types of castings, design of patterns, moulds and cores; solidification and cooling; Riser and gating design. Principles of welding, brazing, soldering and adhesive bonding.	Dr V.Venu Madhav / Dr B. Suprja Reddy
	10 AM- 11 AM	Engineering Materials: Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering	Dr. V. B. Raju / Dr.G. Dilli Babu

		materials.	
	12 PM-1 PM	Machining and Machine Tool Operations: Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; abrasive machining processes; principles of work holding, jigs and fixtures; NC/CNC machines and CNC programming	Dr.G. Dilli Babu / Dr. V. B. Raju
11-12-2023 Monday	2 PM-3PM	Heat Transfer: Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts;	Dr B. Raghava Rao / Dr K. Naga Malleswara Rao
	3PM-5PM	CATIA Software	Dr K.Siva Prasad/ Dr C.Mahesh
12-12-2023 Tuesday	2 PM-3PM	Power Engineering: Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. I.C. Engines: Air-standard Otto, Diesel and dual cycles.	Dr. K. Srinivas / Dr G.Jamuna Rani
	3 PM-4 PM	Fluid Mechanics basics	Dr A.Venkateswarlu /Sri Ashok
	4 PM-5 PM	Mechanics of Materials: Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre;	Dr. N. Ravi Kumar / Sri P.Satish Kumar Reddy
13-12-2023 Wednesday	2 PM-3PM	Theory of Machines: Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; cams; gears and gear trains;	Dr.R.V.Kiran / Sri Ch. Venkata Prasad
	3PM-5PM	CATIA Software	Dr M.Bala Chennaiah/ Sri Ch. Venkata Prasad

14-12-2023 Thursday	2 PM-3PM	Flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.	Dr.R.V.Kiran / Sri Ch. Venkata Prasad
	3PM-5PM	CATIA Software	Dr V.Sridhar/ Dr B. Suprja Reddy
15-12-2023 Friday	2 PM-3PM	Thermodynamics: Thermodynamic systems and processes; properties of pure substances, behavior of ideal and real gases; zeroth and first laws of thermodynamics, calculation of work and heat in various processes	Dr B. Raghava Rao / Dr K. Naga Malleswara Rao
	3PM-5PM	Engineering Graphics	Dr A.Venkateswarlu / Sri M.Rajesh

Dr.N.Vijaya Sai
Professor & Head

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