Course Title:	ADVANCED MECHANICS OF SOLIDS
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/I
Regulation:	R19
Subject Code:	MD101
Name of the Faculty:	Mr. P.SURESH BABU

COURSE OUTCOMES(COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	The students are to compute the fundamentals of stress and strain concepts	Remember
CO 2	To Calculate the stresses and deformations in beams subjected to different loadings	Apply
CO 3	Estimate the effect of bending stresses & curved beams.	Apply
CO 4	Estimate the effect of torsion in shafts and sections.	Evaluate
CO 5	The students are exposed to deflection of bodies in point contact	Evaluate

Course Title:	MECHANICAL VIBRATIONS AND ACOUSTICS
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/I
Regulation:	R19
Subject Code:	MD102
Name of the Faculty:	N.VENKATESWARA RAO

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
C01	The students are good at Basics of SHM - Mathematical modelling of vibrating systems	Remember
CO 2	To compute of Distinguish types of vibration and its effect on the system	Apply
CO 3	Analyze the Natural frequencies and normal modes - Energy methods	Analyse
CO 4	Associate the system response an exposure to various forced vibrations and different wave lengths.	Evaluate
CO 5	The students are to be exposed Noise Measurement And Control systems	Create

Course Title:	ADVANCED MECHANISMS
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/I
Regulation:	R19
Subject Code:	MD1035
Name of the Faculty:	Dr. R NAGENDRA BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	The students are to be exposed to the concepts of Planar mechanisms and manipulators	Remember
CO 2	Estimate the forces and accelerations of different mechanism constructions.	Apply
CO 3	Compute the motion parameters like displacement, velocity, acceleration using the motion mechanism for given applications	Evaluate
CO 4	Compute the Synthesis of Four-bar Mechanisms for specified instantaneous condition.	Analyse
CO 5	The students are to be exposed to motion in straight line and in curvilinear paths, its velocity and acceleration computation and methods of representing plane motion.	Apply

Course Title:	NON - DESTRUCTIVE EVALUATION
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/I
Regulation:	R19
Subject Code:	MD1041
Name of the Faculty:	M. MUTTIAH

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	The students are to be exposed to the concepts of various NDE techniques using radiography, ultrasonic's, liquid penetrates, magnetic patches and Eddy currents	Understand
CO 2	They will learn basic principles of these methods and will be able to select a testing process	Apply
CO 3	They will understand the advantages and disadvantages of these techniques.	Evaluate
CO 4	Comprehensive, theory based understanding of the techniques and methods of non destructive testing	Analyse
CO 5	Apply methods knowledge of non destructive testing to evaluate products of railways, automobiles, aircrafts, chemical industries etc.	Analyse

Course Title:	MACHINE DYNAMICS LAB
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/I
Regulation:	R19
Subject Code:	MD 105
Name of the Faculty:	Mr. P SURESH BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	To compute the damped natural frequency of the vibrating system with different viscous oils.	Understand
CO 2	To understand the Diagnosis of a machine using FFT analyzer.(FFT)	Evaluate
CO 3	To distinguish the Direct kinematic analysis of a robot. 10. Inverse kinematic analysis of a robot	Apply
CO 4	To compute the Experimental modal analysis of Beams	Remember
CO 5	To understand the experiment on evaluation of stress intensity factor	Analyse

Course Title:	DESIGN PRACTICE LAB-I
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/I
Regulation:	R19
Subject Code:	MD 106
Name of the Faculty:	Mr. K SRINIVAS RAO

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
C01	To compute the surface modelling techniques	Understand
CO 2	To understand the Structural Analysis using any FEA Package, like static & model analysis	Evaluate
CO 3	To understand the Thermal Analysis using any FEA Package of steady state & transient conditions	Apply
CO 4	To compute the transient analysis using any FEA for different structures that can be discretised with 1-D, 2-D & 3-D elements	Remember
CO 5	To understand the experiment Experimental modal analysis of Beams on evaluation of stress intensity factor	Analyze

Course Title:	FINITE ELEMENT METHOD
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/II
Regulation:	R19
Subject Code:	MD201
Name of the Faculty:	Mr. P SURESH BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	To learn basics of finite element analysis by using stress and strains	Understand
CO 2	Compute the Discretization of domain, element shapes and also coordinate systems.	Evaluate
CO 3	Compute structural and thermal problems utilizing the trusses and beams	Apply
CO 4	Use 2D vector formulation for solving plane stress, plane strain and axi- symmetric problems	Analyse
CO 5	Compute the iso-parametric formulation for complex contour domain	Apply

Course Title:	ADVANCED MACHINE DESIGN
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/II
Regulation:	R19
Subject Code:	MD202
Name of the Faculty:	Dr. R NAGENDRA BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	Design recommendations for different processes can be studied	Understand
CO 2	Students can recommend the modifications for existing designs based on design values	Apply
CO 3	Student can Based on the theoretical as well as practical background students can recommend the design considerations to be met while designing products or processes.	Apply
CO 4	By following the procedure for designing of adhesive wear, abrasive wear, corrosion wear, surface fatigue.	Evaluate
CO 5	Students can compute the Economic factors influencing design like Economic analysis, Break-even analysis.	Evaluate

Department of Mechanical Engineering Course outcome

Course Title:	COMPOSITE MATERIALS
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/II
Regulation:	R19
Subject Code:	MD2034
Name of the Faculty:	B.BALOJI

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	Students can describe the basic fundamentals of bonds in metals and alloys like MMC, PMC, CMC. Reinforcing fibres	Remember
CO 2	Summarize various solidification mechanisms, like Matrix resins- thermoplastics and thermosetting matrix resins	Understand
CO 3	Discuss and apply the properties and potentials of various engineering materials such as resin transfer moulding, reaction injection moulding	Apply
CO 4	Students can compute the microstructure of high-strength fiber materials (glass, carbon, polymer, ceramic fibers) and matrix materials	Analyse
CO 5	Students can understand the (FSDT).and various application process.	Apply

Department of Mechanical Engineering Course outcome

Course Title:	DESIGN WITH ADVANCED MATERIALS
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/II
Regulation:	R19
Subject Code:	MD2042
Name of the Faculty:	Mr. M MUTAIAH

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	Apply the knowledge of mathematics, science and engineering fundamentals to model the energy conversion phenomenon	Remember
CO 2	Identify and formulate the fatigue and creep, use of material property charts for material selection	Understand
CO 3	Discuss and apply the properties of Modern metallic Materials	Apply
CO 4	Students can compute Non metallic materials like molecular structures, fibers, foams, adhesives and coatings.	Analyse
CO 5	Communicate effectively the concepts of Smart materials, shape memory alloys, metallic glass	Apply

Department of Mechanical Engineering Course outcome

Course Title:	COMPUTATIONAL MATHEMATICS LAB
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/II
Regulation:	R19
Subject Code:	MD205
Name of the Faculty:	Mr. P SURESH BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	Students can Generate a MATLAB and Python code for solving a system of linear equation using Gauss Elimination Method.	Evaluate
CO 2	Generate a MATLAB and Python code	Understand
CO 3	Communicate effectively on Python code for Matrices and Eigen values. Eigen values and Eigen vectors Jacobi method	Apply
CO 4	Students can compute the MATLAB and Python code for Partial Differential equations Elliptical PDE, Parabolic PDE	Analyse
CO 5	Students can understand the (FSDT).and various application process.	Apply

Department of Mechanical Engineering Course outcome

Course Title:	DESIGN PRACTICE LAB – II
Programme:	M.Tech
Academic Year	2019-2020
Year/Semester:	I/II
Regulation:	R19
Subject Code:	MD205
Name of the Faculty:	Mr. P SURESH BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	Students can Simulation of basics of Hydraulic, Pneumatic and Electric circuits using software.	Evaluate
CO 2	Generate the Testing of fluid power circuits to control (i) Velocity (ii) direction and (iii) force of single and double acting actuators.	Understand
CO 3	Communicate effectively Microscopy: Different microscopy techniques, Resolution, Magnification, Depth of field Imaging – theory and concepts.	Apply
CO 4	Students can Testing of Materials- Micro hardness, Tensile strength, Flexural strength, Wear, Abrasion	Analyze
CO 5	Students can test the Servo controller interfacing for open loop, and closed loop	Apply

Department of Mechanical Engineering Course outcome

Course Title:	ADDITIVE MANUFACTURING
Programme:	M.Tech
Academic Year	2020-2021
Year/Semester:	II/I
Regulation:	R19
Subject Code:	MD3013
Name of the Faculty:	Mr. B. RAJASEKHAR

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
C01	Explain the rapid prototyping by stereo lithography apparatus and solid ground curing with help of liquid-based RP systems	Apply
CO 2	What is laminated object manufacturing and fused deposition modeling with help of solid based RP systems	Analyze
CO 3	Discuss the selective laser sintering and three dimensional printing with help of powder based RP systems	Apply
CO 4	Summarize the rapid tooling using the RP systems	Analyze
CO 5	Explain the rapid prototyping data formats and Distinguish various types of application in RP systems	Apply

Course Title:	Industry Safety
Programme:	M.Tech
Academic Year	2020-2021
Year/Semester:	II/I
Regulation:	R19
Subject Code:	OPEN ELECTIVE
Name of the Faculty:	Mr. K MADHU BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes	Blooms Taxonomy level
CO1	To learn basics industry safety precautions	Understand
CO 2	Compute the boiler construction in detail	Evaluate
CO 3	Compute the structural elements of Paper Developing a Research of boilers Apply	
CO 4	Use the concepts of Licensing and transfer of technology	Analyse
CO 5	Compute the Highlighting of your Findings regarding to the industry standards	Apply

Course Title:	PROJECT WROK
Programme:	M.Tech
Academic Year	2020-2021
Year/Semester:	I/I
Regulation:	R19
Subject Code:	MD101
Name of the Faculty:	Mr. P.SURESH BABU

COURSE OUTCOMES (COs):

S. No.	Course Outcomes
CO1	Identify the requirements for the real-world problems.
CO 2	Design engineering solutions to complex problems utilising a systems approach.
CO 3	Communicate with engineers and the community at large in written and oral form
CO 4	Demonstrate the knowledge, skills and attitudes of a professional engineer.