SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES

SUBJECT: ME302 HEAT AND MASS TRANSFER

APJKTU 2015 SCHEME, SIXTH SEMESTER

Sl. No	COURSE OUTCOMES
CO1	Compute temperature distribution in steady and unsteady-state heat conduction there by Solving problems involving conduction with and without internal heat generation in simple/ composite geometries.
CO2	Explain the mechanisms of free and forced convection, dimensionless numbers for flows, boiling and condensation heat transfer and solve related numerical problems.
CO3	Apply the principles of heat transfer to Analyze the extended surface heat transfer and Solve related numerical problems.
CO4	Classify heat exchangers and Design heat exchangers using LMTD and NTU methods and Solve related numerical problems
CO5	Understand radiation heat transfer principles and Estimate the rate of heat transfer by radiation
CO6	Describe the basic concepts of mass transfer in analogous to heat transfer and Solve related numerical problems.

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COURSE OUTCOMES

SUBJECT: ME304 DYNAMICS OF MACHINERY

APJKTU 2015 SCHEME, SIXTH SEMESTER

Sl. No	COURSE OUTCOMES
CO1	Perform static analysis of mechanisms and analyze the effect of friction in mechanisms.
CO2	Perform dynamic analysis of mechanisms and force analysis of gears.
CO3	Understand balancing of reciprocating and rotary masses and analysis of flywheels.
CO4	Understand gyroscopic couple and Analyze stabilization of aircrafts, ships and automobile vehicles.
CO5	Understand the basics of vibration and apply the concepts in design problems of mechanisms.
CO6	Understand about multi degree of freedom systems, torsional systems, vibration control and vibration measuring instruments

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COURSE OUTCOMES

SUBJECT: ME306 ADVANCED MANUFACTURING TECHNOLOGY

APJKTU 2015 SCHEME, SIXTH SEMESTER

Sl. No	COURSE OUTCOMES
CO1	Make a comparison between the principles of powder metallurgy and other manufacturing process.
CO2	Acquire knowledge on NC part Programming and computer aided part programming and able to apply these principles to program and operate a CNC Milling Machine and Lathe.
CO3	Explain the idea of Non- Traditional material removal by Mechanical, Electro-chemical and Thermal energy processes and the influence of process parameters on different process.
CO4	Identify the best suited processing technique for a given product among PAM, LBM,IBM EBN and AJM with material, size, precision, and surface quality requirements.
CO5	Distinguish between conventional and high velocity forming methods.
CO6	Explain the concept and different types of micromachining and material addition process.

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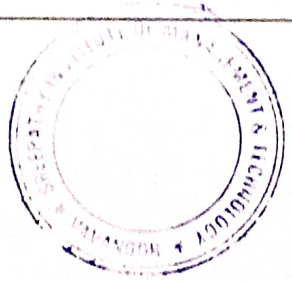
DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES

SUBJECT: ME308 COMPUTER AIDED DESIGN AND ANALYSIS

APJKTU 2015 SCHEME, SIXTH SEMESTER

Sl. No	COURSE OUTCOMES
CO1	Express the concept of CAD/CAM/CIM and Other terminologies used in the development and manufacturing of a product.
CO2	Demonstrate different methods for geometric modeling in CAD.
CO3	Evaluate the types of curves used in creating geometry.
CO4	Formulate stiffness matrix to analyse structural and thermal problems.
CO5	Analyse structural finite element problems by getting knowledge about various finite element methods.



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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES

SUBJECT: ME312 METROLOGY AND INSTRUMENTATION

APJKTU 2015 SCHEME, SIXTH SEMESTER

Sl. No	COURSE OUTCOMES
CO1	Understand the working of linear and angular measuring instruments.
CO2	Know the fundamentals of limits and limit gauges.
CO3	Understand various methods for measurement of screw thread and surface roughness parameters and the working of optical measuring instruments.
CO4	Get an exposure to advanced measuring devices and machine tool metrology.
CO5	Acquire an overview of mechanical measurement systems and principle of instruments for motion and dimension measurement.
CO6	Get basic idea about working principle and applications of devices for measurement of force and torque, strain, stress and temperature.

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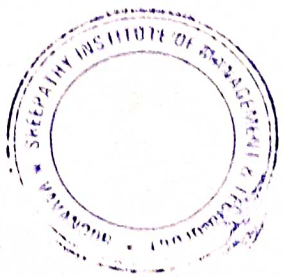
DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES

SUBJECT: ME368 MARKETING MANAGEMENT

APJKTU 2015 SCHEME, SIXTH SEMESTER

Sl. No	COURSE OUTCOMES
CO1	Define the scope and functions of marketing and the importance of marketing environment.
CO2	Explain the concept of market planning, marketing mix and processes in new product launch.
CO3	Identify and demonstrate the dynamic nature of the environment in which marketing decisions are taken.
CO4	Identify the market changes and adopt to the new market.
CO5	Explain key techniques for communicating and analyzing a variety of marketing situations.
CO6	Design a market plan to changing market scenarios



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DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES

SUBJECT: ME372 OPERATIONS RESEARCH

APJKTU 2015 SCHEME, SIXTH SEMESTER

Sl. No	COURSE OUTCOMES
CO1	Generate mathematical models of business scenarios.
CO2	Analyze the practical application of O.R in Engineering.
CO3	Apply appropriate methods for solving the engineering operation research problems.
CO4	Evaluate and solve different O.R methods.

Principal
Sreepathy Institute of Management and Technology, Vavanoor-679 533

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