



COURSE OUTCOMES

Academic year-2019-2020

Year/sem- II-I

CO Number	Course Outcome(CO) Statement- At the end of the Course, the students will be able to	Blooms Taxonomy
Metallurgy & Materials Science(C211)		
C211.1	Explain the crystallization of metals, justify the effect of alloying elements on the behavior of metals.	Evaluate
C211.2	Sketch the equilibrium diagrams to describe the different phases of metals and alloys.	Apply
C211.3	Distinguish different types of cast irons and steels and their applications..	Analyze
C211.4	Interpret different heat treatment processes to get desired mechanical properties of metals	Apply
C211.5	Describe the structure and properties of non ferrous metals and alloys.	Understand
C211.6	Compare the unique nature of ceramics and composite materials.	Analyze
Mechanics Of Solids (C212)		
C212.1	Discuss the stress, strain, poissons ratio and thermal stress in members including strain energy under different loadings.	Understand
C212.2	Investigate the construction of shear force diagrams and bending moment diagrams.	Create
C212.3	Examine the bending and shear stress induced in the beams.	Analyze
C212.4	Appraise slope and deflection for different support arrangements.	Evaluate
C212.5	Execute how a cylinder fails what kind of stresses induced in cylinders subjected to internal, external pressures.	Apply
C212.6	Solve shear stresses induced in circular shafts, discussing columns in stability point and with different end conditions	Apply
Thermodynamics (C213)		
C213.1	Explain the use of boundaries in open and closed systems.	Understand
C213.2	Derive, discuss and apply first law of thermodynamics for problem solving.	Apply
C213.3	Apply the second law of thermodynamics to thermal cycles to solve the problems.	Apply

C213.4	Calculate the quality of steam by using thermodynamic diagrams.	Apply
C213.5	Differentiate the properties of gas mixtures and psychometric properties of air.	Analyze
C213.6	Derive and explain the efficiency of power cycles and performance of refrigeration cycles.	Apply
Managerial Economics & Financial Analysis (C214)		
C214.1	Describe the Basic Concepts and Principles of Managerial economics	Remember
C214.2	Explain the production cost concepts.	Understand
C214.3	Evaluate the market competition & determine pricing	Evaluate
C214.4	Describe the types of industrial organization	Understand
C214.5	Analyze the financial statements.	Analyze
C214.6	Evaluate the investment proposal in projects	Evaluate
Fluid Mechanics & Hydraulic machinery (C215)		
C215.1	Explain the properties of fluids and measure pressure of the flowing fluid	Evaluate
C215.2	Use Euler's equation, Bernoulli's equation, Energy momentum equations and solve various fluid flow problems	Apply
C215.3	Perform dimensional analysis	Analyze
C215.4	Calculate hydrodynamic forces and efficiencies	Apply
C215.5	Apprise the performance of pumps under varying load conditions	Evaluate
C215.6	Design hydraulic systems like lifts which are suitable for requirements	Create

Faculty co-ordinator

HOD

