



Department of Engineering Science

Course Outcomes

Course Name:-	Fundamentals of Programming Languages -II
Course Code:-	110010
At the end of course, students will be able to-	
CO1:-	Understand the concepts of Structure and Union.
CO2:-	Analyze, Design & Apply the concept of OOPs in data structure
CO3:-	Analyze, Design & Develop webpage using Web Technology HTML
CO4:-	Analyze, Design & Develop Mobile Application and Embedded system using advanced technologies.
Course Name:-	Basic Mechanical Engg.
Course Code:-	102013
At the end of course, students will be able to-	
CO1:-	Define the scope of mechanical engineering, compare and classify the machine elements.
CO2:-	Elaborate the steps in design process.
CO3:-	Select different manufacturing processes for given engineering applications.
CO4:-	Select machine tools for manufacturing of machine components.
CO5:-	Explain the basic concepts of thermodynamics, principle of energy conservation and conversion.
CO6:-	Identify and explain different power producing devices and power consuming devices.
Course Name:-	Engineering Mechanics
Course Code:-	101011
At the end of course, students will be able to-	
CO1:-	analyze the coplanar and non coplanar force system to find resultant
CO2:-	locate centroid of given composite lamina and wire bend.
CO3:-	analyze kinematics of rectilinear and curvilinear motions parameters.
CO4:-	analyze kinetics of rectilinear and curvilinear motions using D'alembert principle, impulse, and momentum and work energy principles
CO5:-	Draw FBD and analyze coplanar and non coplanar forces system in equilibrium, including beam, frames, cables and truss structures.
CO6:-	Apply coulombs law of friction to engineering problem of wedges, ladder and rope of belt friction.
Course Name:-	Basic Electronics Engineering
Course Code:-	104012
At the end of course, students will be able to-	
CO1:-	Apply the concepts of PN junction and special purpose diodes for different applications
CO2:-	Explain configuration, biasing, characteristics, parameters and application of transistor.

CO3:-	Analyze modes, parameter, feedback and various applications of operational amplifier.
CO4:-	Construct various digital circuit diagrams using gates with precise output and reduced complexity.
CO5:-	Classify power devices and transducers with respect to requirement
CO6:-	Identify transmission media and modulation for electronic communication along with details of mobile communication
Course Name:-	Engineering Physics
Course Code:-	107002
At the end of course, students will be able to-	
CO1:-	Able to analyze basic knowledge of optics for engineering and technological problem
CO2:-	Able to understand terms and applications related to sound engineering for social and scientific application
CO3:-	Able to apply concepts of polarization and laser for scientific , industrial and medical applications
CO4:-	Able to apply knowledge of semiconductor physics for recent trends and advances in technological development
CO5:-	Able to understand basic concepts of matter waves for developing mathematical and analytical abilities in wave mechanics
CO6:-	Able to use knowledge of superconductors and nano materials in recent trends and advance technology
Course Name:-	Engg Mathematics-II
Course Code:-	107008
At the end of course, students will be able to-	
CO1:-	Modeling of various physical systems such as Newton's law of cooling, L-C-R circuits, rectilinear motion , mass spring systems heat transfer etc.
CO2:-	Design and analysis of continuous and discrete system, where knowledge of Fourier series and Harmonic analysis is required.
CO3:-	Advanced technique to evaluate integrals.
CO4:-	Measurement of arc lengths of various curves.
CO5:-	Sphere, cone and cylinder that arise in vector calculus , electro-magnetic field Theory, CAD-CAM , Computer Graphics etc.
CO6:-	Multiple integrals which are used in calculating areas, volumes, mean and Root mean square values mass, moments of inertia and centre of gravity.
Course Name:-	Basic Electrical Engineering
Course Code:-	103004
At the end of course, students will be able to-	
CO1:-	Demonstrate and measurement of resistance with the variation of temperature, importance of insulation resistance, classification and evaluation of energy consumption through energy conversion.

CO2:-	Summarize the fundamentals of electromagnetism, compare electrical and magnetic circuit ,make use of magnetic circuit concepts to solve the numericals.
CO3:-	Apply the concepts of electromagnetic induction to analyze the principle of transformer and summarize the concepts of electrostatics.
CO4:-	Extend the concept of electromagnetic induction for generation of ac and its representation for practical analysis of ac circuits
CO5:-	Illustrate the concepts of single and three phase ac circuits along with the phasor diagrams.
CO6:-	Simplify the networks and provide the solution by applying Kirchhoff's laws and theorems

Course Name:- Engineering Chemistry

Course Code:- 107009

At the end of course, students will be able to-

CO1:-	Apply different methodologies for analysis of water, techniques for softening of water and concept of green chemistry in synthesis of various chemical compounds.
CO2:-	Utilize analytical methods for analysis of various chemical compounds.
CO3:-	Identify different types of polymer, their preparation methods, properties and applications in various fields.
CO4:-	Analyze quality of fossil and derived fuels on the basis of their composition.
CO5:-	Explain the importance of carbon and hydrogen compounds in the development of modern technologies.
CO6:-	Student will be able to explain causes for corrosion and its preventive methods.