Mahavir Education Trust's



Shah & Anchor Kutchhi Engineering College,

Chembur, Mumbai 400 088

Information Technology Academic Year 2020-21

Semester I

Sem	Course Code	Course Name	CO Number	Course Outcome Statements
	Code		Number	
			FEC1011	Apply De Moivre's Theorem to obtain the powers and roots of a complex number.
			FEC1012	Use the relation between circular and hyperbolic functions to separate into real and imaginary parts of hyperbolic and logarithmic functions.
			FEC1013	Develop skills of successive Differentiation, expansion of functions in ascending power of variable and value of the function in the neighbourhood of some points.
			FEC1014	Apply the concept of partial differentiation to find total derivative and maxima & minima of a function of two independent variables.
			FEC1015	Apply Numerical Techniques to solve Transcendental equations using Newton- Raphson and Regula-falsi methods.
I	FEC101	Applied Mathematics-I	FEC1016	Calculate the rank of a matrix by reducing it to Echelon form, Normal form and use this concept to solve the system of linear equations.
			FEC1021	Recall the basic principles, methodologies and crystal structures.
			FEC1022	Understand and describe the concepts pertaining to quantum mechanics, crystallography and semiconductor physics.
			FEC1023	Discuss the principles of interference in thin films, superconductivity and engineering materials.
			FEC1024	Apply the theory of quantum mechanics, crystallography and semiconductor physics for explaining the structure and functionality of atoms, crystals and devices.
			FEC1025	Develop and utilize the concepts of interference in thin films, superconductivity and engineering materials for interpretation under varying conditions.
I	FEC102	Applied Physics-I	FEC1026	Demonstrate the use of concepts learnt in practical applications.
			FEC1031	Recall the basic concepts of engineering chemistry such as atomic and molecular structure, phases, industrial polymer
		Applied Chemistry	FEC1032	Explain the concept of microscopic chemistry in terms of atomic and molecular orbital theory and relate it to
I	FEC103	-l		molecular structure

•	FEL102	Chemistry-I		before use
		Engineering	FEL1023	water Determine hardness of water to decide treatment of water
			FEL1022	Understand importance of estimation of the Chloride in
				index of material
			FEL1021	Understand the significance of viscosity and viscosity
Ι	FEL101	Physics-I		obtained.
		Engineering	FEL1016	To relate theoretical analysis with the experimental data
			FEL1015	thin film based on the concept of interference in thin films To study charging and discharging of supercapacitor
			FEL1014	To calculate the thickness of paper using wedge shaped
				To study the use of zener diode as voltage regulator.
			FEL1013	
			FEL1012	To analyse the working of pn junction diode based on its IV characteristics.
1	FEC105	Engineering	FEL1011	To Plot Miller Indices
ī	EEC105	Basic Electrical	FEC1056	response Analyze behavior of basic electrical circuits.
			FEC1055	Apply network theorems to circuits to determine the circu
			EEC1055	machines.
			FEC1054	Understand the principle and working of rotating electrical
				machines.
			FEC1053	Understand the principle and working of static electrical
				principles.
			FEC1052	Understand the various electrical circuit theorems and
				electrical engineering
			FEC1051	Recall methodologies, procedures and principles of basic
I	FEC104	Mechanics		momentum principles
		Engineering		using force, acceleration, work-energy and impulse
			1 LC1040	relation for a rigid body and analyze particles in motion
			FEC1046	Illustrate different types of motion and establish kinemati
			FEC1043	particle and analyze the motion by plotting relation
			FEC1045	inclined plane. Establish relation between velocity and acceleration of a
			FEC1044	Apply laws of friction on bodies lying on horizontal and inclined plane
			FEC1044	system with the help of FBD Apply laws of friction on hodies lying on horizontal and
			FEC1043	Apply the conditions of equilibrium in two-dimensional
			FEC1042	1
			EEC1042	System Determine control of plane lamine
				in determining resultant of coplanar and non-coplanar
			FEC1041	Illustrate the concept of force, moment and apply the sam
				treatment
			FEC1036	Analyze the quality of water and suggest method for
				and conducting polymers in various industrial fields
			FEC1035	Illustrate the knowledge of polymers, fabrication method,
				material
			FEC1034	forces and relate it to properties of materials Describe the concept of phase transformation of a given

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			FEL1024	Understand the importance of pH value in water quality measurement
			FEL1025	Understand the structure and properties of polymer for its engineering applications
			FEL1026	Document their observations and interpretation after performing the experiment satisfactorily
			FEL1031	Experiments are designed to illustrate the law of moment, with the help of physical models
			FEL1032	Experiments are designed to illustrate the law of equilibrium with the help of physical models
			FEL1033	Experiments are designed to law of polygon of forces with
			FEL1034	the help of physical models Experiment is designed to estimate the friction force
			FEL1035	between two surfaces Experiment is designed to calculate acceleration due to
				gravity
I	FEL103	Engineering Mechanics	FEL1036	Experiment is designed to find coefficient of restitution between steel ball & glass ball.
			FEL1041	Recall and implement circuits
			FEL1042	Understand the theoretical concept and relate it with
				practical behavior.
			FEL1043	Understand the construction and working of electrical
				machines.
			FEL1044	Demonstrate correct usage of a method or procedure.
			FEL1045	Identify the assumptions and differentiate between theoretical and practical results, within permissible limits
				of errors.
I	FEL104	Basic Electrical Engineering	FEL1046	Analyze the losses and efficiency of static electrical machine.
			FEL1051	Study and use of hand tools and power tools
			FEL1052	Performing marking, punching, cutting, filling, drilling,
				tapping etc. operations on
			FEL1053	Welding of two metal parts by using butt and lap joint
			FEL1054	Identify different components of computer hardware & troubleshooting
		Basic Workshop	FEL1055	Installation of OS, device drivers and application software
I	FEL105	practice I	FEL1056	Identify network devices, network cables & crimping