Department of Basic Science Engineering					
Sl.No.	Name of the Subject	CO Code	Course Outcomes		
		MAT101	solve systems of linear equations, diagonalize matrices and characterise quadratic forms		
		MAT101	compute the partial and total derivatives and maxima and minima of multivariable functions		
		MAT101	compute multiple integrals and apply them to find areas and volumes of geometrical shapes		
		MAT101	compute mass and centre of gravity of plane laminas using multiple integrals		
		MAT101	perform various tests to determine whether a given series is convergent, absolutely convergent or conditionally convergent		
1	Linear Algebra and Calculus	MAT101	determine the Taylor and Fourier series expansion of functions and learn their applications.		
		MAT102	Solve the homogenious differential Equations		
		MAT102	Solve the nonhomogenious differential Equations		
		MAT102	Analysing the Fourier series		
		MAT102	Analyse the Partial differential equations with respect to their order and linearity.		
	Vector Calculus, Differential	MAT102	Evaluate one dimensional wave equations		
2	equation and Transforms	MAT102	Evaluate one dimensional heat equation		
		PHT100	Apply the knowledge of harmonic oscillator and waves in circuits		
		PHT100	Interpret the importance of light phenomenon in thin film and resolution		
		PHT100	Analyse the usage of Polaroid and Superconductors in Electronics industry.		
		PHT100	Analyse the fundamental concepts in the behavior of electrons and photons.		
		PHT100	Apply the basic concept of acoustics and ultrasonics in Civil structures		
3	Engineering Physics A	PHT100	Apply the principles of laser and fiber optics in medical and telecommunications.		
		PHT110	Compute the quantitative aspects of waves & oscillations in engineering systems		
			Apply the interaction of light with matter through interference, diffraction and identify these phenomena in different natural optical		
		PHT110	processes and optical instruments.		
			Analyze the behaviour of matter in the atomic & subatomic level through the principles of quantum mechanics to perceive the		
		PHT110	microscopic processes in electronic devices		
		PHTTIO	Apply the knowledge of ultrasonics in non destructive testing.		
		DUT110	Use the principles of accoustics to explain the nature and characterization of acoustic design and to produce a safe and healthy		
	En sin sonin a Dhysica D	PHIII0	environment.		
	Engineering Physics B	CVT100	Apply the comprehended knowledge about laser and hole optic communication system in various engineering applications.		
		CYT100	Evaluate the Electrode notantials of metal electrodes and goin the knowledge of Electrodesmicel calls and betterios		
		CYT100	A new the use of modern instrumental techniques including thermal and chromategraphic methods in Engineering metarials		
		CYT100	Apply the use of modern instrumental techniques including thermal and enformatographic methods in Engineering materials.		
		CYT100	Understand the fundemental concernts of Eucle and lubricents.		
	Engineering Chemistry	CVT100	Evaluate the hardness, amount of chloride ion and discoved ovugan present in watersample and water treatments for purifications		
-		EST100	Pocall principles and theorems related to rigid body mechanics		
		EST100	Identify and describe the components of system of forces acting on the rigid body		
		EST100	Apply the conditions of equilibrium to various practical problems involving different force system		
		EST100	Choose appropriate theorems, principles or formulae to solve problems of mechanics		
-	Engineering Mechanics	EST100	Solve problems involving rigid bodies, applying the properties of distributed areas and masses		
		EST110	Understand the theory of Orthographic Projection		
		EST110	Understand the conventions and the methods of Engineering Drawing		
		EST110	Understand the knowledge about the Projection of point straight lines solids etc.		
		EST110	Understand the sections of solids and the development of different types of surfaces		
		EST110	Understand about isometric and perspective projection		
	Engineering Graphics	EST110	Understand the features of CADD Software		
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		EST120	Recall the role of civil engineer in societyand to relate the various disciplines of civil engineering
		EST120	Explain different types of buildings, building components, building materials and building construction
		EST120	Discuss the importance, objectives and principles of surveying
		EST120	Summarize the basic infrastructure services like MEP, HVAC, elevators, escalators and ramps
		EST120	Discuss energy system, materials and water management and environment for green building
	8 Basic of Civil Engineering	EST120	Students will have an idea about construction management with low budget
		EST120	Explain theCarnot Engine and sources of power.
		EST120	Explain the working of steam turbine,gasturbine,hydraulic turbine and IC engine.
		EST120	Understandthe working and applications of a refrigerator and air conditioner.
	9 Basic of Mechanical Engineering	EST120	Understand the casting, forging, rolling, extrusion and metal joining processes.
		EST130	Illustrate with the working of different active components to demonstrate basic electronic circuits
		EST130	Design circuits using active and passive components for strengthening fundamental idea about basic electronics.
	10 Basic Of Electric Engineering	EST130	Summarize the devices used in basic communication systems.
		EST130	Apply fundamental concepts and circuit laws to solve simple DC electric circuits
		EST130	Develop and solve models of magnetic circuits
		EST130	Apply the fundamental laws of electrical engineering to solve simple ac circuits in steady state
		HUT101	Define and Identify different life skills required in personal and professional life
		HUT101	Develop an awareness of the self and apply well-defined techniques to cope with emotions and stress.
		HUT101	Explain the basic mechanics of effective communication and demonstrate these through presentations.
		HUT101	Take part in group discussions.
		HUT101	Use appropriate thinking and problem solving techniques to solve new problems
	12 Life Skills	HUT101	Understand the basics of teamwork and leadership
		HUT102	Develop vocabulary and language skills relevant to engineering as a profession
		HUT102	Analyze, interpret and effectively summarize a variety of textual content
		HUT102	Create effective technical presentations
		HUT102	Discuss a given technical/non-technical topic in a group setting and arrive at generalizations/consensus
		HUT102	Identify drawbacks in listening patterns and apply listening techniques for specific needs
	13 Professional Communication	HUT102	Create professional and technical documents that are clear and adhering to all the necessary conventions
		EST102.1	Understand the basics of Computer Hardware &Software and fundamentals of C language
		EST102.2	Analyze a computational problem and develop an algorithm/flowchart to find its solution
		EST102.3	Develop readable* C programs with branching and looping statements, which uses Arithmetic, Logical, Relational or Bitwise operators.
1		EST102.4	Write readable C programs with arrays, structure or union for storing the data to be processed and which uses string functions
		EST102.5	Divide a given computational problem into a number of modules and develop a readable multi-function C program by using recursion if required, to find the solution to the computational problem
1	14 Programming in C	EST102.6	Develop readable C programs which uses pointers for array processing and parameter passing, with files for reading input and storing output