DEPARTMENT OF BASIC SCIENCE NAD HUMANITIES			
SUB. CODE	**SUBJECT NAME**	**COURSE OUTCOMES**	
C101	COMMUNICATIVE ENGLISH	C101.1	Define the role of communication in the present day world.
		C101.2	Understand the fundamentals of Grammar for error free written communication.
		C101.3	Use basic knowledge in Phonetics and Pronunciation skills for better Communication.
		C101.4	Illustrate the diversified traditions and cultures through interpersonal communication.
		C101.5	Evaluate student's competency through various writing skills.
		C101.6	Develop the confidence to make communication in all the situations with knowledge on soft skills.
C103	MATHEMATICS-I	C103.1	Apply the knowledge of calculus, Gamma and Beta functions for analyzing engineering problems.
		C103.2.	Analyze the first order differential equations using standard methods and its application in engineering fields.
		C103.3	Demonstrate various physical models through higher order differential equation
		C103.4	Explain linear differential equations with variation of parameters.
		C103.5	Describe series solution of differential equations and explain application of Bessel's function.
		C103.6	Develop the essential tool of different matrices with matrix algebra and to compute eigen values and eigen vectors required for matrix diagonalization process.
C106	PHYSICS	C106.1	Solve the classical and wave mechanical problems.

		C106.2	Demonstrate various types of oscillation and their application in various processes
		C106.3	Formulate and solve the engineering problems on electromagnetism.
		C106.4	Correlate the different ideas in solving the problems of classical physics in their parent streams.
		C106.5	Learn physics behind various types of lasers and their characteristics.
		C106.6	Analyze the quantum physics and their importance in engineering platform
C113	ENGLISH LANGUAGE LAB	C113.1	Explain and facilitate computer-aided multi-media instruction enabling individualized and independent language learning.
		C113.2	Interpret the students to the nuances of English speech sounds, word accent, intonation and rhythm.
		C113.3	Change a consistent accent and intelligibility in their pronunciation of English by providing an opportunity for practice in speaking.
		C113.4	Develop the fluency in spoken English and neutralize mother tongue influence.
		C113.5	Compare the abilities of students with real life situations faced by the students.
		C113.6	Modify students to use language appropriately for interviews, group discussion and public speaking
C116	PHYSICS LAB	C116.1	Explain the value of g on various places.
		C116.2	Summarize the elasticity of various materials.
		C116.3	Analyses the characteristics of various diode.
		C116.4	Interpret the law of string.
		C116.5	Determine the wavelength of light.

		C116.6	Illustrate the viscosity of liquid.
C105	CHEMISTRY	C105.1	Understand the basics of quantum mechanical concept.
		C105.2	Apply the principles of spectroscopy in predicting absorption and relative terms in diatomic molecule.
		C105.3	Evaluate the phase diagram of some one and two component systems by applying Phase Rule.
		C105.4	Classify the organometallics.
		C105.5	Analyse the quantitative aspects of fuel combustion by understanding the fundamental concepts of fuels.
		C105.6	Evaluate the corrosion of a material by using the fundamental concepts of corrosion chemistry
C104	MATHEMATICS-II	C104.1	Apply the knowledge of Laplace transformation and its use in getting solution to differential equations.
		C104.2	Use of periodic functions and Fourier series, Fourier integral
		C104.3	Describe Fourier transform to analyze circuit and system communication.
		C104.4	Illustrate the concept of vector differential calculus to understand the solenoidal and irrotational vectors
		C104.5	Illustrate the concept of tangent and arc length, gradient.
		C104.6	Solve the Vector differential and integral calculus problem.
C115	CHEMISTRY LAB	C115.1	Determine the amount of a compound / ion present in a given mixture / compound.
		C115.2	Understand the Iodometric titrations.
		C115.3	Analyse water sample to know some of its characteristics.
		C115.4	Evaluate the suitability of a lubricant/fuel by determining some general property.
		C115.5	Create a drug.

		C115.6	Apply the knowledge gained to determine the strength of a solution.
23HS1001	Universal Human Values	CO-1	Describe the principles of communication in an effective way
		CO-2	Identify the purpose of communication and make it audience oriented
		CO-3	Recognise the importance of non-verbal signals in communication.
		CO-4	Fine tune their articulation of speech by using fundamentals of phonetics.
		CO-5	Communicate in writing in English correctly with accuracy of grammar.
		CO-6	Write relevant vocabulary and knowledge of common English Phrases.
RMA3A001	Mathematics-III	CO-1	Identify, formulate formula and analyze complex engineering problems and they can solve it.
		CO-2	Understand the processes of Interpolation of a polynomial by Lagrange, Newton divided, forward and backward difference.
		CO-3	Gain knowledge to analyze and formulate the formula to compare the exact and approximate value of an integral by different rules.
		CO-4	Solve an ordinary differential equation and a system of ordinary differential equations by using numerical Methods and extract the value of variables.
		CO-5	Evaluate the probabilistic problems by defining the probability formula and use them to solve Probability problems.
		CO-6	Gain knowledge about the Statistical hypothesis and analyze the regression and related them into estimate

REN3 E001	Engineering Economics	CO-1	Define the basic concept of micro and macroeconomics, engineering economics and their application in engineering economy.
		CO-2	Understand the law of demand and law of supply.
		CO-3	Understand the environment and financial systems of the country and its impact on business, society and enterprise.
		CO-4	Analyze time value of money using engineering economy factors.
		CO-5	Gain knowledge of economics and engineering principles to solve engineering problems and to evaluate engineering projects considering upon depreciation, taxes and inflation.
		CO-6	Apply depreciation methods for individual/industrial/ public alternatives
REN3 E002	Organisational Behaviour	CO-1	Demonstrate the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.
		CO-2	Demonstrate the applicability of analyzing the complexities associated with management of individual behaviour in the organization.
		CO-3	Analyze the complexities associated with management of the group behaviour in the organization.
		CO-4	Demonstrate how the organizational behaviour can integrate in understanding the motivation (why) behind behaviour of people in the organization.
		CO-5	Evaluate the impact of different cultures with in an organization
		CO-6	Develop a new technique to implement organizational change for the achievement of organizational goal.
C302	OPTIMIZATION	C302.1	To Explain the theory of optimization methods and algorithms developed for solving various types of optimization problem

	ENGINEERING	C302.2	To Understand the fundamental knowledge of linear programming
		C302.3	To develop and promote research interest in applying optimization techniques on problems of engineering and technology
		C302.4	To Illustrate fundamentals of integer programming techniques and apply different techniques to solve various optimization problems arising from engineering area
		C302.5	To apply the mathematical results and numerical techniques of optimization theory to concrete engineering problem
		C302.6	To modify and use classical optimization techniques and numerical methods of optimization

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