



DEPARTMENT OF APPLIED SCIENCE AND HUMANITIES

Academic year: 2019-20

Semester: II

Branch: ALL FIRST YEAR

Course Code	Course Name	COs
FEC201	ENGINEERING MATHEMATICS II	<i>Student will be able to</i> CO 1. Solve various type of first order differential equation. CO 2. Solve various type of higher order differential equation CO 3. Illustrate the concept of beta and gamma function, DUIS and rectification. CO 4. Apply the concept of double integration. CO 5. Apply the concept of triple integration. CO 6. Apply the principal of numerical method for solving differential equation and numerical integration analytically and using SCILAB
FEC202	ENGINEERING PHYSICS II	<i>Student will be able to</i> CO 1. Illustrate the knowledge of diffraction through slits, grating and its applications. CO 2. Illustrate the different types of laser and its working as well as its application. Also will be able to understand basic concept of Fiber optic cable, its type and application. CO 3. Understand fundamental of Electrodynamics, mainly Maxwell equations and its required mathematical terms. CO 4. Understand basic concept of relativity. CO 5. Illustrate synthesis characteristics of nonmaterial with different methods like SEM,TEM,AFM and also get the knowledge of application of nonmaterial. CO 6. Explore basic sensory techniques for measurements in Modern Instruments.
FEC203	ENGINEERING CHEMISTRY II	<i>Student will be able to</i> CO 1. Student will get the idea about of different types of fuels, including their production, refining methods and combustion mechanism. CO 2. Student will be able to calculate the quantity of air and oxygen required for the complete combustion of fuels. CO 3. Student will be able to identify different types of corrosion and suggest control measures in industries. CO 4. Student will understand the concept of electrode potential and Nernst theory and relate it to electrochemical cells. CO 5. Student will get the idea of various spectroscopic techniques and its application. CO 6. Incorporate the knowledge of the principles of green chemistry and study environmental impact.



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FEC204	ENGINEERING GRAPHICS	<i>Student will be able to</i> CO 1. Apply the basic principles of projections in Projection of Lines and Planes CO 2. Apply the basic principles of projections in Projection of Solids CO 3. Apply the basic principles of sectional views in Section of solids. CO 4. Apply the basic principles of projections in converting 3D view to 2D drawing CO 5. Read a given drawing CO 6. Visualize an object from the given two views.
FEC205	C PROGRAMMING	<i>Student will be able to</i> CO 1. Students will be able to formulate simple algorithms for arithmetic, logical problems and translate them to programs in C language. CO 2. Students will be able to implement, test and execute programs comprising of control structures. CO 3. Students will be able to decompose a problem into functions and synthesize a complete program. CO 4. Students will be able to demonstrate the use of arrays, strings and structures in C language. CO 5. Students will be able to understand the concept of pointers
FEC206	PROFESSIONAL COMMUNICATION & ETHICS	<i>Students will be able to</i> CO 1. Identify and eliminate barriers and use verbal/non-verbal cues at social and workplace situations CO 2. Apply listening strategies to comprehend wide ranging vocabulary, grammatical structures, tone and pronunciation. CO 3. Prepare effectively for speaking at social, academic and business situations. CO 4. Apply reading strategies for faster comprehension, summarization and evaluation of text. CO 5. Understand the techniques of business writing and will be able to draft academic, business and technical document. CO 6. Apply the grooming techniques to present themselves effectively in academic, social and professional situations.