

Semester – II

Unique Course Number: FEC201

Course Name: Applied Mathematics-II

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
FEC2011	Choose and utilize Gamma & Beta function to evaluate improper integrals
FEC2012	Demonstrate the ability to evaluate definite integrals numerically using Trapezoidal, Simpson 1/3 rd & Simpson 3/8 th rule.
FEC2013	Identify the different types of differential equations and choose the analytical or numerical method to solve first order first degree differential equations.
FEC2014	Solve and analyze the higher order linear differential equations with constant coefficients
FEC2015	Evaluate multiple integrals using a transformation of coordinates, change of order of integration.
FEC2016	Compute area, mass of lamina and volume by using double and triple integrals.

Unique Course Number: FEC202

Course Name: Applied Physics-II

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
FEC2021	Recall the basic laws and principles of Optics, Electricity, Magnetism and Nano-science.
FEC2022	Discuss the principles of diffraction of light, LASERs, Optical fibers & Nanotechnology.
FEC2023	Understand and describe the concepts pertaining to Electrodynamics, Relativity & Sensors.
FEC2024	Develop and utilize the concepts of diffraction of light, LASERs, Optical fibers and Nanotechnology for interpretation in various applications.
FEC2025	Apply the theory of Electrodynamics, Relativity and Sensors for explaining respective applications.
FEC2026	Demonstrate the use of concepts learnt in practical applications.

Unique Course Number: FEC203

Course Name: Applied Chemistry -II

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
FEC2031	Explain the concept of Engineering Chemistry such as calorific value, knocking, and types of spectroscopy
FEC2032	Distinguish the range of electromagnetic spectrum and illustrate the concept of emission spectroscopy
FEC2033	Illustrate the effect of corrosive environment on engineering material and summarize 12 principles of green chemistry
FEC2034	Identify the types of corrosion and suggest control measures in industries
FEC2035	Select the greener path following the principles of green chemistry.
FEC2036	Explain the process to determine the quality of fuel and calculate the amount of oxygen required for complete combustion



Unique Course Number: FEC204

Course Name: Engineering Graphics

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
FEC2041	Apply the basic principles of projections of lines and planes	
FEC2042	Apply the basic principles of projections in projection of solids.	
FEC2043	Apply the basic principles of sectional views in section of solids	
FEC2044	Apply the basic principles of projections in converting 3 D view to 2D drawing	
FEC2045	Read a given drawing	
FEC2046	Visualize an object from the given two views.	

Unique Course Number: FEC205

Course Name: C programming

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
FEC2051	Explain and exemplify the elementary C concepts through programs, algorithms and flowcharts.	
FEC2052	Discuss and demonstrate decision making and branching statements in C	
FEC2053	Discuss and demonstrate decision making and looping statements in C	
FEC2054	Apply the concept of function on the given problem statement.	
FEC2055	Demonstrate the use of homogeneous and heterogeneous data types in C.	

Unique Course Number: FEC206

Course Name: Professional Communication and Ethics- I

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
FEC2061	Eliminate barriers and use verbal and nonverbal cues at social and workplace situations.	
FEC2062	Employ Listening strategies to comprehend wide ranging vocabulary, grammatical structures, tone and pronunciation.	
FEC2063	Prepare effectively for speaking at social, academic and business situations.	
FEC2064	Use reading strategies for faster comprehension, summarization and evaluation of texts.	
FEC2065	Acquire effective writing skills for drafting academic, business and technical documents.	
FEC2066	Successfully interact in all kinds of settings, displaying refined grooming and social skills.	

Unique Course Number: FEL201

Course Name: Engineering Physics-II Lab

Unique CO Number	Students will be able to,	Course Outcome (CO) Statement
FEL2011	To perform the experiment based on diffraction grating to find the wavelength of laser light.	
FEL2012	To perform the experiment to measure divergence of the laser beam.	
FEL2013	To perform the experiment to find numerical aperture of an optical fiber	
FEL2014	To measure distance using an ultrasonic distance meter.	
FEL2015	To perform the experiment on RTD and understand static and dynamic characteristics.	
FEL2016	Design and implement miniature projects related to physics.	



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DEPARTMENT OF COMPUTER ENGINEERING



ISO 9001 Certified

Unique Course Number: FEL206

Course Name: Basic Workshop practice-II

Unique CO Number	Course Outcome (CO) Statement
	Students will be able to,
FEL2061	Develop the necessary skills required to handle / use different tools for carpentry, sheet metal working and brazing.
FEL2062	Design and model of a T-Lap joint.
FEL2063	Demonstration of a wood-turning job.
FEL2064	Develop the necessary skills required to handle / use different tools to design, fabricate and assemble PCB
FEL2065	Demonstrate and simulate different software for PCB designing and electrical connections for different load.
FEL2066	Design and modeling of a sheet metal job along with brazing operation.