

Semester – II

Unique Course Number: FEC201

Course Name: Applied Mathematics-II

Unique CO Number	Course Outcome (CO) Statement
FEC2011	Choose and utilize Gamma & Beta function to evaluate improper integrals
FEC2012	Identify the different types of differential equations and choose the analytical or numerical method to solve first order first degree differential equations.
FEC2013	Demonstrate the ability to evaluate definite integrals numerically using Trapezoidal, Simpson 1/3 rd & Simpson 3/8 th rule.
FEC2014	Solve and analyze the higher order linear differential equations with constant coefficients and its applications in related field of engineering.
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
FEC2021	Comprehend principles of interference and diffraction.
FEC2022	Illustrate the principle, construction and working of various LASERs and its applications.
FEC2023	Identify various applications of optical fibers.
FEC2024	Comprehend the concepts of electrodynamics and Maxwell's equations and their use in telecommunication systems.
FEC2025	Apply the concepts of electromagnetism in focusing systems and CRO.
FEC2026	Comprehend the significance of nanoscience and nanotechnology, its applications.

Unique Course Number: FEC203

Course Name: Applied Chemistry -II

Unique CO Number	Course Outcome (CO) Statement
FEC2031	Identify types of corrosion and factors affecting it related to problems affecting all industries.
FEC2032	Identify different types of correction control methods to study corrosion control in various industries.
FEC2033	Apply the knowledge of different types of fuels, including their production and refining methods and combustion mechanisms.
FEC2034	Illustrate composition and properties of different types of alloys and the process of powder metallurgy.
FEC2035	Illustrate principles of green chemistry.
FEC2036	Illustrate properties and applications of different types of composite material.

Unique Course Number: FEC204

Course Name: Engineering Drawing

Unique CO Number	Course Outcome (CO) Statement
FEC2041	Apply the basic principles of projections in 1D and 2D drawings
FEC2042	Apply the basic principles of projections in converting 3D view to 2D drawing.
FEC2043	Read a given drawing.
FEC2044	Visualize an object from the given two views.
FEC2045	Use CAD tool to draw different views of a 3D object.
FEC2046	Use CAD tool to draw an object in 3D.

Unique Course Number: FEC205

Course Name: Structured Programming Approach

Unique CO Number	Course Outcome (CO) Statement
FEC2051	Illustrate the basic terminology used in computer programming
FEC2052	Illustrate the concept of data types, variables and operators using C.
FEC2053	Design and Implement control statements and looping constructs in C.
FEC2054	Apply function concept on problem statements
FEC2055	Demonstrate the use of arrays, strings, structures and files handling in C.
FEC2056	Demonstrate the dynamics of memory by the use of pointers to construct various data structures.

Unique Course Number: FEC206

Course Name: Communication Skill

Unique CO Number	Course Outcome (CO) Statement
FEC2061	Identify, Interpret and construct appropriate messages for a variety of contexts.
FEC2062	Display oral and written Skills in the English Language in different scenarios of Business Communication.
FEC2063	Enhance the ability to build vocabulary and identify common errors in English Language.
FEC2064	Demonstrate good comprehension making, paraphrasing and summarizing.
FEC2065	Enhance the proficiency to use appropriate language for Technical Writing.
FEC2066	Enhance proficiency to use appropriate language in social media

Unique Course Number: FEL112

Course Name: Basic workshop Practice-II

Unique CO Number	Course Outcome (CO) Statement
FEL1121	Study and use of hand tools and power tools
FEL1122	Performing marking, punching, cutting, filling etc. operations on fitting job
FEL1123	Welding of two metal parts by using butt and lap joint.
FEL1124	Observation of different machine operations e.g. milling, surface grinding, metal lathe machine etc.