## Department Of Cyber Security

| Sem | Course Code | Course Name | CO Number | Course Outcome Statements |
|---|---|---|---|---|
| | | | FEC2011 | Choose and utilize Gamma & Beta function to evaluate improper integrals |
| | | | FEC2012 | Demonstrate the ability to evaluate definite integrals numerically using Trapezoidal, Simpson 1/3rd& Simpson 3/8th 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 |
| | | Applied | FEC2015 | Evaluate multiple integrals using a transformation of coordinates, change of order of integration. |
| II | FEC201 | Mathematics-II | FEC2016 | Compute area, mass of lamina and volume by using double and triple integrals. |
| | | | 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. |
| II | FEC202 | Applied Physics-II | FEC2026 | Demonstrate the use of concepts learnt in practical applications. |
| | | | FEC1031 | Explain the concept of Engineering Chemistry such as calorific value, knocking, and types of spectroscopy |
| | | | FEC1032 | Distinguish the range of electromagnetic spectrum and illustrate the concept of emission spectroscopy |
| | | | FEC1033 | Illustrate the effect of corrosive environment on engineering material and summarizing 12 principles of green chemistry |
| | | | FEC1034 | Identify the types of corrosion and suggest control measures in industries |
| | | | FEC1035 | Select the greener path following the principles of green chemistry. |
| | | Applied Chemistry- | FEC1036 | Explain the process to determine the quality of fuel and calculate the amount of oxygen required for complete |
| II | FEC203 | II | | combustion |
| | | | 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 |
| | | Engineering | FEC2045 | Read a given drawing |
| II | FEC204 | Graphics | FEC2046 | Visualize an object from the given two views. |
| | | | 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. |
| II | FEC205 | C programming | FEC2056 | Illustrate the use of pointers |
| | | | 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. |
| | | Professional | FEC2064 | Use reading strategies for faster comprehension, summarization and evaluation of texts. |
| | | Communication | FEC2065 | Acquire effective writing skills for drafting academic, business and technical documents. |
| II | FEC206 | and Ethics- I | FEC2066 | Successfully interact in all kinds of settings, displaying refined grooming and social skills. |
| | | | FEL2011 | To perform the experiment based on diffraction grating to find the wavelength of laser light. T |
| | | | FEL2012 | To perform the experiment to Measure divergence of laser beam. |
| | | | FEL2013 | To perform the experiment to find numerical aperture of an optical fiber |
| | | | FEL2014 | To perform the experiment based on photodiode to study I/V characteristics and plot the reverse biased characteristics of the same. |
| | | Engineering Pysics- | FEL2015 | o perform the experiment using Ultrasonic distance meter for measurement of distance |
| II | FEL201 | II | FEL2016 | Design and implement miniature projects related to physics |
| | | | FEL2021 | Determine the % of moisture content present in the solid fuel and to explain its effect on calorific value |
| | | | FEL2022 | Estimate acid value of oils and discuss its importance in selecting lubricating oil. |
| | | | FEL2023 | Estimate the electrode potential of metal and indentify its ability to resist corrosion |
| | | | FEL2024 | Identify the factors controlling the rate of corrosion of metal |
| | | Engineering | FEL2025 | Differentiate between greener and non greener chemical processes. |
| II | FEL202 | Chemistry-II | FEL2026 | Document their observations and interpretation after performing the experiment satisfactorily |
| | | | FEL2031 | Use different Command from draw toolbar. |
| | | | FEL2032 | Use different Command from modify toolbar and application to line problem. |
| | | | FEL2033 | Read orthographic projection. |
| | | | FEL2034 | Draw orthographic projections using AutoCAD. |
| | | Engineering | FEL2035 | Draw Sectional orthographic projections using AutoCAD. |
| II | FEL203 | Graphics | FEL2036 | Draw isometric projection using AutoCAD. |
| | | | FEL2041 | Demonstrate the use operators in C |
| | | | FEL2042 | Implement Conditional Statements in C |
| | | | FEL2043 | Implement Looping constructs in C |
| | | | FEL2044 | Decompose a problem into functions and synthesize a complete program. |
| | | | FEL2045 | Solve given problem using C data type like array and strings |
| II | FEL204 | C programming | FEL2046 | Illustrate the concept of structures and pointers |
| | | | FEL2051 | Learn and comprehend all types of spoken discourse successfully |
| | | | FEL2052 | speak fluently and make effective professional presentation |
| | | Professional | FEL2053 | Read large quantities of text in short times to comprehend, summaries and Evaluate. |

| | | | | |
|---|---|---|---|---|
| | | Communication | FEL2054 | Draft precise business letters. Academic essays and technical Guidelines. |
| II | FEL205 | and Ethics- I | FEL2055 | Dress finely and conduct themselves with panache in social, academic and professional situation |
| | | | 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 |
| | | Basic Workshop | FEL2065 | Demonstrate and simulate different software for PCB designing and electrical connections for different load. |
| II | FEL206 | practice-II | FEL2066 | Design and modeling of a sheet metal job along with brazing operation. |