

Class	Semester	Name of Subject	Subject Code	CO No.	CO
FY	1	BASIC MATHEMATICS	311302	CO1	Apply the concepts of algebra to solve engineering (discipline) related problems.
				CO2	Utilize trigonometry to solve branch specific engineering problems.
				CO3	Solve area specific engineering problems under given conditions of straight lines.
				CO4	Apply differential calculus to solve discipline specific problems.
				CO5	Use techniques and methods of statistics to crack discipline specific problems.
FY	1	COMMUNICATION SKILLS (ENGLISH)	311303	CO1	Construct grammatically correct sentences in English
				CO2	Compose paragraphs and dialogues on given situations
				CO3	Comprehend passages correctly.
				CO4	Use contextual words in English appropriately
				CO5	Deliver effective presentations in English using appropriate body language
FY	1	BASIC SCIENCE	311305	CO1	Use basic instruments to measure the physical quantities in various engineering situations.
				CO2	Apply the basic principles of electromagnetics to solve given engineering problems.
				CO3	Apply basic principles of thermometry and fibre optics to solve engineering problems.
				CO4	Predict the structure, properties and behaviour of molecules and compounds based on the types of chemical bond.
				CO5	Apply the concepts of electrochemistry and corrosion preventive measures in industry.
				CO6	Use the appropriate engineering material and catalyst appropriately.
FY	1	FUNDAMENTALS OF ICT	311001	CO1	Use computer system and its peripherals for given purpose
				CO2	Prepare Business document using Word Processing Tool
				CO3	Analyze Data and represent it graphically using Spreadsheet
				CO4	Prepare professional Slide Show presentations
				CO5	Use different types of Web Browsers and Apps
				CO6	Explain concept and applications of Emerging Technologies
FY	1	ENGINEERING WORKSHOP PRACTICE	311002	CO1	Carry-out elementary level maintenance of a PC
				CO2	Create partitions and format hard disk drive
				CO3	Install and configure Operating system.
				CO4	Configure different types of peripheral devices.
				CO5	Setup small Local Area Network.
				CO6	Use diagnostic software for fault finding in Computer system.
FY	1	YOGA AND MEDITATION	311003	CO1	Practice basic Yoga and Pranayama in daily life to maintain physical and mental fitness.
				CO2	Practice meditation regularly for improving concentration and better handling of stress and anxiety.
				CO3	Follow healthy diet and hygienic practices for maintaining good health.
FY	1	ENGINEERING GRAPHICS	311008	CO1	Draw geometrical figures and engineering curves.
				CO2	Apply principles of orthographic projections for drawing given pictorial views.
				CO3	Apply basic CAD commands for drawing different entities
				CO4	Use various drawing codes, conventions and symbols as per IS SP-46 in engineering drawing.
				CO5	Draw free hand sketches of given engineering elements
FY	2	APPLIED MATHEMATICS	312301	CO1	Solve the broad-based engineering problems of integration using suitable methods
				CO2	Use definite integration to solve given engineering related problems.
				CO3	Apply the concept of differential equation to find the solutions of given engineering problems
				CO4	Employ numerical methods to solve programme specific problems.
				CO5	Use probability distributions to solve elementary engineering problems.
FY	2	ELEMENTS OF ELECTRICAL ENGINEERING	312315	CO1	Interpret the magnetic field parameters for the particular magnetic circuits
				CO2	Analyze A.C. circuits for single phase and polyphase supply
				CO3	Select the transformer and DC motor for the given application.
				CO4	Select the fractional horse power motor for the given application
				CO5	Choose the protective devices for the electrical protection.
				CO6	Use various types of sensors and transducers.
FY	2	PROGRAMMING IN C	312303	CO1	Develop C program using input - output functions and arithmetic expressions
				CO2	Develop C program involving branching and looping statements
				CO3	Implement Arrays and structures using C programs
				CO4	Develop C program using user-defined functions
				CO5	Write C program using pointer
FY	2	BASIC ELECTRONICS	312314	CO1	Use relevant diode in electronics circuits
				CO2	Use BJT in electronics circuits
				CO3	Use of BJT as amplifier and switch
				CO4	Use FET and MOSFET in electronics circuits
				CO5	Maintain DC regulated power supply
FY	2	PROFESSIONAL COMMUNICATION	312002	CO1	Communicate effectively (oral / spoken and Written) in various formal and informal situations minimizing the barriers.
				CO2	Develop listening skills through active listening and note taking.
				CO3	Write circulars, notices and minutes of the meeting.
				CO4	Draft inquiry letter, complaint letter , Job application with resume / CV, Compose effective E - mails
				CO5	Write Industrial reports
FY	2	SOCIAL AND LIFE SKILLS	312003	CO1	Enhance the ability to be fully self-aware and take challenges by overcoming all fears and insecurities and grow fully.
				CO2	Increase self-knowledge and awareness of emotional skills and emotional intelligence at the place of study/work.
				CO3	Provide the opportunity to realizing self-potential through practical experience while working individually or in group.
				CO4	Develop interpersonal skills and adopt good leadership behaviour for self-empowerment and empowerment of others.
				CO5	Set appropriate life goals with managing stress and time effectively.
FY	2	WEB PAGE DESIGNING	312004	CO1	Use HTML formatting tags to present content on web page.
				CO2	Develop web page using list and hyperlinks.
				CO3	Develop web pages using images, colors and backgrounds.
				CO4	Design HTML forms using table and frames.
				CO5	Apply presentation schemes on content using CSS.
				CO6	Publish websites on internet or intranet.
				CO1	Explain concept of database management system.

