

COURSE OUTCOMES – 'K' SCHEME BY MSBTE

Course	Course Code	Course Outcomes
First Semester		
311001-FUNDAMENTALS OF ICT-C101	C101.1	Use computer system and its peripherals for given purpose.
	C101.2	Prepare Business document using Word Processing Tool.
	C101.3	Analyze Data and represent it graphically using Spreadsheet.
	C101.4	Prepare professional Slide Show presentations.
	C101.5	Use different types of Web Browsers and Apps.
	C101.6	Explain concept and applications of Emerging Technologies.
311002-ENGINEERING WORKSHOP PRACTICE - C102	C102.1	Carry-out elementary level maintenance of a PC.
	C102.2	Create partitions and format hard disk drive.
	C102.3	Install and configure Operating system.
	C102.4	Configure different types of peripheral devices.
	C102.5	Setup small Local Area Network.
	C102.6	Use diagnostic software for fault finding in Computer system.
311003-YOGA AND MEDITATION - C103	C103.1	Practice basic Yoga and Pranayama in daily life to maintain physical and mental fitness.
	C103.2	Practice meditation regularly for improving concentration and better handling of stress and anxiety.
	C103.3	Follow healthy diet and hygienic practice for maintaining good health.
311008-ENGINEERING GRAPHICS -C104	C104.1	Draw geometrical figures and engineering curves.
	C104.2	Apply principles of orthographic projections for drawing given pictorial views.
	C104.3	Apply basic CAD commands for drawing different entities.
	C104.4	Use various drawing codes, conventions and symbols as per IS SP-46 in engineering drawing.
	C104.5	Draw free hand sketches of given engineering elements.
311302-BASIC MATHEMATICS-C105	C105.1	Apply the concepts of algebra to solve engineering (discipline) related problems.
	C105.2	Utilize trigonometry to solve branch specific engineering problems.
	C105.3	Solve area specific engineering problems under given conditions of straight lines.
	C105.4	Apply differential calculus to solve discipline specific problems.

	C105.5	Use techniques and methods of statistics to crack discipline specific problems.
311303- COMMUNICATIO N SKILLS (ENGLISH)- C106	C106.1	Construct grammatically correct sentences in English.
	C106.2	Compose paragraphs and dialogues on given situations.
	C106.3	Comprehend passages correctly.
	C106.4	Use contextual words in English appropriately.
	C106.5	Deliver effective presentations in English using appropriate body language.
311305-BASIC SCIENCE - C107	C107.1	Use basic instruments to measure the physical quantities in various engineering situations.
	C107.2	Apply the basic principles of electromagnetics to solve given engineering problems.
	C107.3	Apply basic principles of thermometry and fibre optics to solve engineering problems.
	C107.4	Predict the structure, properties and behaviour of molecules and compounds based on the types of che
	C107.5	Apply the concepts of electrochemistry and corrosion preventive measures in industry.
	C107.6	Use the appropriate engineering material and catalyst appropriately.
Course	Course Code	Course Outcomes
Second Semester		
312001-LINUX BASICS -C108	C108.1	Install Linux operating system.
	C108.2	Execute general purpose commands of the Linux operating system.
	C108.3	Execute general purpose commands of the Linux operating system.
	C108.4	Use vi editor in Linux operating system.
	C108.5	Write programs using shell script.
312002- PROFESSIONAL COMMUNICATIO N-C109	C109.1	Communicate effectively (oral / spoken and Written) in various formal and informal situations minimizing the barriers.
	C109.2	Develop listening skills through active listening and note taking.
	C109.3	Write circulars, notices and minutes of the meeting.
	C109.4	Draft inquiry letter, complaint letter , Job application with resume / CV, Compose effective E - mails.
	C109.5	Write Industrial reports.
312003-SOCIAL AND LIFE SKILLS - C110	C110.1	Enhance the ability to be fully self-aware and take challenges by overcoming all fears and insecurities and grow fully.
	C110.2	Increase self-knowledge and awareness of emotional skills and emotional intelligence at the place of study/work.

	C110.3	Provide the opportunity to realizing self-potential through practical experience while working individually or in group.
	C110.4	Develop interpersonal skills and adopt good leadership behaviour for self-empowerment and empowerment of others.
	C110.5	Set appropriate life goals with managing stress and time effectively.
312004-WEB PAGE DESIGNING - C111	C111.1	Use HTML formatting tags to present content on web page.
	C111.2	Develop web page using list and hyperlinks.
	C111.3	Develop web pages using images, colors and backgrounds.
	C111.4	Design HTML forms using table and frames.
	C111.5	Apply presentation schemes on content using CSS.
	C111.6	Publish websites on internet or intranet.
312301- APPLIED MATHEMATICS- C112	C112.1	Solve the broad-based engineering problems of integration using suitable methods.
	C112.2	Use definite integration to solve given engineering related problems.
	C112.3	Apply the concept of differential equation to find the solutions of given engineering problems.
	C112.4	Employ numerical methods to solve programme specific problems.
	C112.5	Use probability distributions to solve elementary engineering problems.
312302-BASIC ELECTRICAL AND ELECTRONICS ENGINEERING - C113	C113.1	Calculate and measure basic electrical quantities and parameters.
	C113.2	Use different electrical machines by making connections.
	C113.3	Use electrical safety devices in electrical circuit.
	C113.4	Use relevant diode in different electronic circuits.
	C113.5	Use BJT and FET in various electronic circuits.
	C113.6	Use various types of sensors and transducers.
312303- PROGRAMMING IN C - C113	C113.1	Develop C program using input - output functions and arithmetic expressions.
	C113.2	Develop C program involving branching and looping statements.
	C113.3	Implement Arrays and structures using C programs.
	C113.4	Develop C program using user-defined functions.
	C113.5	Write C program using pointer.
Course	Course Code	Course Outcomes
Third Semester		
313001- COMPUTER	C201.1	Manipulate Visual and Geometric information of Images.
	C201.2	Develop programs in C applying standard graphics algorithms.

GRAPHICS - C201	C201.3	Perform and Demonstrate basic and composite graphical transformations on given object.
	C201.4	Implement various Clipping algorithms.
	C201.5	Develop programs to create Curves.
313002-ESSENCE OF INDIAN CONSTITUTION - C202	C202.1	List salient features and characteristics of the constitution of India.
	C202.2	Follow fundamental rights and duties as responsible citizen of the country.
	C202.3	Analyze major constitutional amendments in the constitution.
	C202.4	Follow procedure to cast vote using voter-id.
313301-DATA STRUCTURE USING C - C203	C203.1	Perform basic operations on Arrays.
	C203.2	Apply different Searching and Sorting methods.
	C203.3	Implement basic operations on Linked List.
	C203.4	Perform operations on Stack using Array and Linked List Implementations
	C203.5	Perform operations on Queue using Array and Linked List Implementations.
	C203.6	Create and Traverse Tree to solve problems.
313302-DATABASE MANAGEMENT SYSTEM - C204	C204.1	Explain concept of database management system.
	C204.2	Design the database for given problem.
	C204.3	Manage database using SQL.
	C204.4	Implement PL/SQL codes for given application.
	C204.5	Apply security and backup methods on database.
313303-DIGITAL TECHNIQUES - C205	C205.1	Apply number system and codes concept to interpret working of digital systems.
	C205.2	Apply Boolean laws to minimize complex Boolean function.
	C205.3	Develop combinational logic circuits for given applications.
	C205.4	Develop sequential logic circuits using Flip-flops.
	C205.5	Interpret the functions of data converters and memories in digital electronic systems.
313304-OBJECT ORIENTED PROGRAMMING USING C++ - C206	C206.1	Write C++ programs using classes and objects.
	C206.2	Develop C++ programs using constructors.
	C206.3	Implement Inheritance in C++.
	C206.4	Implement Polymorphism in C++.
	C206.5	Develop C++ programs to perform file operations.

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