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	107001	Engineering Mathematics I	C101.1	Mean value theorems and its generalization leading to Taylors and Maclaurins series Useful in the Analysis of Engineering problems
			C101.2	The Fourier series representation and harmonic analysis for design and analysis of periodic continuous and discrete system
			C101.3	To deal with derivative of function of several variables that are essential in various branches of engineering
			C101.4	To apply the concept of Jacobian to find partial derivative of implicit function and functional dependence.Use of Partial derivatives in estimating error and approximation and finding extreme values of the function
			C101.5	Understand and solve the system of linear equations and finding rank of the matrix
			C101.6	Understand and solve various matrix methods and its stability analysis using Eigen values and vectors.
	107002	Engineering Physics	C102.1	Develop understanding of interference, diffraction and polarization; connect it to few engineering applications
			C102.2	Learn basics of lasers and optical fibers and their use in some applications.
			C102.3	Understand concepts and principles in quantum mechanics. Relate them to some applications
			C102.4	Understand the theory of semiconductors and their applications in some semiconductor devices.
			C102.5	Summarize basics of magnetism and superconductivity. Explore few of their technological applications.
			C102.6	Comprehend use of concepts of physics for Non Destructive Testing. Learn some properties of nonmaterial and their application.
	102003	System in Mechanical Engineering	C103.1	Describe and compare the conversion of energy from renewable and non-renewable energy sources
			C103.2	Explain basic laws of thermodynamics, heat transfer and their applications.
			C103.3	To understand the specifications of vehicles.
			C103.4	To get acquainted with vehicle systems.
			C103.5	To introduce proper manufacturing process applicable to produce components.
			C103.6	To be able to select and compare domestic appliances.
	103004	Basic Electrical Engineering	C104.1	Differentiate between electrical and magnetic circuits and derive mathematical relation for self and mutual inductance along with coupling effect.
			C104.2	Calculate series, parallel and composite capacitor as well as characteristics parameters of alternating quantity and phasor arithmetic
			C104.3	Derive expression for impedance, current, power in series and parallel RLC circuit with AC supply along with phasor diagram.
			C104.4	Relate phase and line electrical quantities in polyphase networks, demonstrate the operation of single phase transformer and calculate efficiency and regulation at different loading conditions
			C104.5	: Apply and analyze the resistive circuits using star-delta conversion KVL, KCL and different network theorems under DC supply
			C104.6	Evaluate work, power, energy relations and suggest various batteries for different applications, concept of charging and discharging and depth of charge.
	110005	Programming and Problem Solving	C105.1	Inculcate and apply various skills in problem solving.
			C105.2	Choose most appropriate programming constructs and features to solve the problems in iversified domains.
			C105.3	Exhibit the programming skills for the problems those require the writing of welldocumented programs including use of the logical constructs of language, Python.
			C105.4	Demonstrate significant experience with the Python program development environment.
	111006	Workshop Practice	C107.1	Familiar with safety norms to prevent any mishap in workshop.
			C107.2	Able to handle appropriate hand tool, cutting tool and machine tools to manufacture a job.
			C107.3	Able to understand the construction, working and functions of machine tools and their parts.
			C107.4	Able to know simple operations -Turning and Milling, Grinding, Shaping, Planning
	101007	Audit Course 1	C107.1	Demonstrate an integrative approach to environmental issues with a focus on sustainability.
			C107.2	Explain and identify the role of the organism in energy transfers in different ecosystems.
			C107.3	Distinguish between and provide examples of renewable and nonrenewable resources & analyze personal consumption of resources.

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FE Sem I			C107.4	Identify key threats to biodiversity and develop appropriate policy options for conserving biodiversity in different settings.
	107008	Engineering Mathematics II	C108.1	Understand to frame differential equation and studied various kind of solutions of differential Equation
			C108.2	Understand Modeling of various physical system with the help of differential equation such as Newton's law cooling, L-C-R circuits, rectilinear motion, mass-spring systems heat transfer etc.
			C108.3	Understand the various advanced integration techniques such as Reduction formulae, Beta functions, Gamma functions, Differentiation under integral sign and Error functions needed in valuating integrals
			C108.4	Trace the curve & Use of measurement of arc lengths of various curves
			C108.5	Use of sphere ,cone and cylinder that arise in vector calculus ,electro -magnetic field theory,cad cam ,computer graphics etc
			C108.6	Understand and solve Multiple integrals which are used in calculating areas ,volumes, mean,and RMS values ,mass, moment of inertia and center of Gravity
	107009	Engineering Chemistry	C109.1	Apply the different methodologies for analysis of water and techniques involved in softening of water as commodity
			C109.2	Select appropriate electro-technique and method of material analysis.
			C109.3	Demonstrate the knowledge of advanced engineering materials for various engineering
			C109.4	Analyze fuel and suggest use of alternative fuels.
	104010	Basic Electronics Engineering	C110.1	Explain the working of P-N junction diode and build its circuits. Identify types of diodes and plot their characteristics.
			C110.2	Explain the working of transistor and also can compare BJT with MOSFET. Build and test analog circuits using OPAMP.
			C110.3	Translate different number systems. Build and test digital circuits using universal/basic gates and flip flops.
			C110.4	Make Use of different electronics measuring instruments to measure various electrical parameters.
			C110.5	Select sensors for specific applications.
			C110.6	Explain basic principles of communication systems.
	101011	Engineering Mechanics	C111.1	Determine resultant of various force systems
			C111.2	Determine centroid, moment of inertia and solve problems related to friction?
			C111.3	Determine reactions of beams; calculate forces in cables using principles of equilibrium?
			C111.4	Solve trusses, frames for finding member forces and apply principles of equilibrium to forces in space?
			C111.5	Calculate position, velocity and acceleration of particle using principles of kinematics?
			C111.6	Calculate position, velocity and acceleration of particle using principles of kinetics and Work, Power, Energy?
	102012	Engineering Graphics	C112.1	Draw the fundamental engineering objects using basic rules and able to construct the simple geometries
			C112.2	Construct the various engineering curves using the drawing instruments.
			C112.3	Apply the concept of orthographic projection of an object to draw several 2D views and its sectional views for visualizing the physical state of the object.
			C112.4	Apply the visualization skill to draw a simple isometric projection from given orthographic views precisely using drawing equipment.
			C112.5	Draw the development of lateral surfaces for cut section of geometrical solids.
			C112.6	Draw fully-dimensioned 2D, 3D drawings using computer aided drafting tools.
	110013	Project Based Learning-I	C113.1	Project based learning will increase their capacity and learning through shared cognition
			C113.2	Students able to draw on lessons from several disciplines and apply them in practical way
			C113.3	Learning by doing approach in PBL will promote long-term retention of material and replicable skill, as well as improve teachers' and students' attitudes towards learning
	101014	Audit Course 2	C114.1	Have an understanding of environmental pollution and the science behind those problems and potential solutions.
			C114.2	Have knowledge of various acts and laws and will be able to identify the industries that are violating these rules.
			C114.3	Assess the impact of ever increasing human population on the biosphere: social, economic issues and role of humans in conservation of natural resources.

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			C114.4	Learn skills required to research and analyze environmental issues scientifically and learn how to use those skills in applied situations such as careers that may involve environmental problems and/or issues.
SE SEM I (2021-22)	**210241**	**Discrete Mathematics**	**C201.1**	Formulate problems precisely, solve the problems, apply formal proof techniques, and explain
			C201.2	Apply appropriate mathematical concepts and skills to solve problems in both familiar and unfamiliar situations including those in real-life contexts.
			C201.3	Design and analyze real world engineering problems by applying set theory, propositional logic and to construct proofs using mathematical induction.
			C201.4	Specify, manipulate and apply equivalence relations; construct and use functions and apply these concepts to solve new problems.
			C201.5	Calculate numbers of possible outcomes using permutations and combinations; to model and analyze computational processes using combinatorics.
			C201.6	Model and solve computing problem using tree and graph and solve problems using appropriate algorithms.
			C201.7	Analyze the properties of binary operations, apply abstract algebra in coding theory and evaluate the algebraic structures.
	210242	**Fundamentals of Data Structures**	**C202.1**	Design the algorithms to solve the programming problems, identify appropriate algorithmic strategy for specific application, and analyze the time and space complexity
			C202.2	Discriminate the usage of various structures, Design/Program/Implement the appropriate data structures; use them in implementations of abstract data types and
			C202.3	Demonstrate use of sequential data structures- Array and Linked lists to store and process data.
			C202.4	Understand the computational efficiency of the principal algorithms for searching and sorting and choose the most efficient one for the application.
			C202.5	Compare and contrast different implementations of data structures (dynamic and static).
			C202.6	Understand, Implement and apply principles of data structures-stack and queue to solve computational problems.
	210243	**Object Oriented Programming(OOP)**	**C203.1**	Apply constructs- sequence, selection and iteration; classes and objects, inheritance, use of predefined classes from libraries while developing software.
			C203.2	Design object-oriented solutions for small systems involving multiple objects.
			C203.3	Use virtual and pure virtual function and complex programming situations.
			C203.4	Apply object-oriented software principles in problem solving.
			C203.5	Analyze the strengths of object-oriented programming.
			C203.6	Develop the application using object oriented programming language(C++).
	210244	**Computer Graphics**	**C204.1**	Identify the basic terminologies of Computer Graphics and interpret the mathematical foundation of the concepts of computer graphics.
			C204.2	Apply mathematics to develop Computer programs for elementary graphic operations
			C204.3	Illustrate the concepts of windowing and clipping and apply various algorithms to fill and clip polygons.
			C204.4	Understand and apply the core concepts of computer graphics, including transformation in; two and three dimensions, viewing and projection.
			C204.5	Understand the concepts of color models, lighting, shading models and hidden surface elimination. .
			C204.6	Create effective programs using concepts of curves, fractals, animation and gaming
	217521	**Operating Systems**	**C205.1**	Enlist functions of OS and types of system calls
			C205.2	Apply process scheduling algorithms to solve a given problem
			C205.3	Illustrate deadlock prevention, avoidance and recovery
			C205.4	Explain memory management technique
			C205.5	Illustrate I/O and file management policies
			C205.6	Describe Linux process management
	217522	**Data Structures Laboratory**	**C206.1**	Use algorithms on various linear data structure using sequential organization to solve real life problems.
			C206.2	Analyze problems to apply suitable searching and sorting algorithm to various applications.
			C206.3	Analyze problems to use variants of linked list and solve various real life problems.

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			C206.4	Designing and implement data structures and algorithms for solving different kinds of problems.
	217523	**OOP and Computer Graphics Laboratory**	**C207.1**	Understand and apply the concepts like inheritance, polymorphism, exception handling and generic structures for implementing reusable programming codes.
			C207.2	Analyze the concept of file and apply it while storing and retrieving the data from secondary storages.
			C207.3	Analyze and apply computer graphics algorithms for line-circle drawing, scan conversion and filling with the help of object oriented programming concepts.
			C207.4	Understand the concept of windowing and clipping and apply various algorithms to fill and clip polygons.
			C207.5	Apply logic to implement, curves, fractals, animation and gaming programs.
	217524	**Operating Systems Laboratory**	**C208.1**	Choose the best CPU scheduling algorithm for a given problem instance
			C208.2	Demonstrate interprocess communication
			C208.3	Apply deadlock avoidance algorithm
			C208.4	Compare performance of page replacement algorithms
			C208.5	Demonstrate the fundamental UNIX commands & system calls
	217525	**Business Communication Skills**	**C209.1**	Express effectively through verbal/oral communication and improve listening skills
			C209.2	Write precise briefs or reports and technical documents.
			C209.3	Prepare for group discussion / meetings / interviews and presentations.
			C209.4	Explore goal/target setting, self-motivation and practicing creative thinking.
			C209.5	Operate effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership qualities.
	217526	**Humanity and Social Science**	**C210.1**	Aware of the various issues concerning humans and society.
			C210.2	Aware about their responsibilities towards society.
			C210.3	Sensitized about broader issues regarding the social, cultural, economic and human aspects, involved in social changes.
			C210.4	Able to understand the nature of the individual and the relationship between self and the community.
			C210.5	Able to understand major ideas, values, beliefs, and experiences that have shaped human history and cultures.
	217527	**Audit Course 3**	**C211.1**	Comprehend the importance of ecosystem and biodiversity
			C211.2	Correlate the human population growth and its trend to the environmental degradation and develop the awareness about his/her role towards environmental protection and prevention
			C211.3	Identify different types of environmental pollution and control measures
			C211.4	Correlate the exploitation and utilization of conventional and non-conventional resources
	217528	**Statistics**	**C212.1**	Understand the basics of Statistcs and various sampling methods
			C212.2	Use measures of central cendancy to describe the data
			C212.3	Use measures of dispersion, correlation to describe the data
			C212.4	Use distribution functions for random variables
			C212.5	Apply tests for hypothesis and understand its significance
	217529	**Internet of Things**	**C213.1**	Have a thorough understanding of the structure, function and characteristics of computer systems and Understand the structure of various number systems and its application in digital design.
			C213.2	Develop the skill set to build IoT systems and sensor interfacing.
			C213.3	Explain the concept of Internet of Things and identify the technologies that make up the internet of things
			C213.4	Analyze trade-offs in interconnected wireless embedded device networks. Select Appropriate Protocols for IoT Solutions
			C213.5	Design a simple IoT system comprising sensors by analyzing the requirements of IoT Application
			C213.6	Identify the Application of IoT in automation of Commercial and Real World examples
	210252	**Data Structures and Algorithms**	**C214.1**	Identify and articulate the complexity goals and benefits of a good hashing scheme for real-world applications.
			C214.2	Apply non-linear data structures for solving problems of various domain.
			C214.3	Design and specify the operations of a nonlinear-based abstract data type and implement them in a high-level Programming Language.
			C214.4	Analyze the algorithmic solutions for resource requirements and optimization.

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			C214.5	Use efficient indexing methods and multi-way search techniques to store and maintain data.
			C214.6	Use appropriate modern tools to understand and analyze the functionalities confined to the
	210253	Software Engineering	C215.1	Analyze software requirements and formulate design solution for a software.
			C215.2	Design applicable solutions in one or more application domains using software engineering approaches that integrate ethical, social, legal and economic concerns.
			C215.3	Apply new software models, techniques and technologies to bring out innovative and novelistic solutions for the growth of the society in all aspects and evolving into their
			C215.4	Model and design User interface and component-level.
			C215.5	Identify and handle risk management and software configuration management.
			C215.6	Utilize knowledge of software testing approaches, approaches to verification and validation.
			C215.7	Construct software of high quality – software that is reliable, and that is reasonably easy to understand, modify and maintain efficient, reliable, robust and cost-effective software
SE SEM II (2021-22)	217530	Management Information System	C216.1	Explain the concepts of Management Information System and Business intelligence for MIS.
			C216.2	Illustrate the need of information systems in global business and ethical issues.
			C216.3	List the IT infrastructure components and explain security in the Information System.
			C216.4	Demonstrate the importance of project management and extend its use in the international information system.
			C216.5	Illustrate the concepts of decision support systems for business applications.
			C216.6	Relate artificial intelligence and data science for Management Information System.
	217531	Internet of Things Laboratory	C217.1	Understand IOT Application Development using Raspberry Pi/ Beagle board/ Arduino board
			C217.2	Develop and modify the code for various sensor based applications using wireless sensor modules and working with a variety of modules like environmental modules.
			C217.3	Make use of Cloud platform to upload and analyse any sensor data
	217532	Data Structures and Algorithms Laboratory	C218.1	Understand the ADT/libraries, hash tables and dictionary to design algorithms for a specific problem.
			C218.2	Choose most appropriate data structures and apply algorithms for graphical solutions of the
			C218.3	Apply and analyze non linear data structures to solve real world complex problems.
			C218.4	Apply and analyze algorithm design techniques for indexing, sorting, multi-way searching, file organization and compression.
			C218.5	Analyze the efficiency of most appropriate data structure for creating efficient solutions for engineering design situations.
	217533	Project Based Learning II	C219.1	Identify the real life problem from societal need point of view
			C219.2	Choose and compare alternative approaches to select most feasible one
			C219.3	Analyze and synthesize the identified problem from technological perspective
			C219.4	Design the reliable and scalable solution to meet challenges
			C219.5	Evaluate the solution based on the criteria specified
			C219.6	Inculcate long life learning attitude towards the societal problems
	217534	Code of Conduct	C220.1	Understand the basic perception of profession, professional ethics, various moral and social issues, industrial standards, code of ethics and role of professional ethics in engineering field.
			C220.2	Aware of professional rights and responsibilities of an engineer, responsibilities of an engineer for safety and risk benefit analysis.
			C220.3	Understand the impact of the professional Engineering solutions in societal and Environmental contexts, and demonstrate the knowledge of, and need for sustainable
			C220.4	Acquire knowledge about various roles of engineers in variety of global issues and able to apply ethical principles to resolve situations that arise in their professional lives.
	217535	Audit Course 4	C221.1	Understand philosophy and religion as well as daily life issues will be challenged and
			C221.2	Enhances the immune system.
			C221.3	Intellectual and philosophical understanding of the theory of yoga and basic related Hindu
			C221.4	Powers of concentration, focus, and awareness will be heightened
	310241	Database Management System	C301.1	Analyze and design Database Management System using ER model
			C301.2	Implement database queries using database languages
			C301.3	Normalize the database design using normal forms
			C301.4	Apply Transaction Management concepts in real-time situations
			C301.5	Use NoSQL databases for processing unstructured data
			C301.6	Differentiate between Complex Data Types and analyze the use of appropriate data types
	317521	Computer Network	C302.1	Summarize Fundamental concept of Computer Network, architecture, protocols and technologies
			C302.2	Analyze the working of Physical layer protocols
			C302.3	Analyze the working of different routing protocols and mechanisms
			C302.4	Implement Client-server applications using Sockets.
			C302.5	Illustrate role of application layer with its protocols, client-server architectures.

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TE SEM I (2022-23)			C302.6	Summerize concepts of MAC and ethernet
	310252	Artificial Intelligence	C303.1	Identify and apply suitable Intelligent agents for various AI applications
			C303.2	Build smart system using different informed search / uninformed search or heuristic
			C303.3	Identify knowledge associated and represent it by ontological engineering to plan a strategy to solve given problem
			C303.4	Apply the suitable algorithms to solve AI problems
			C303.5	Implement ideas underlying modern logical inference systems
			C303.6	Represent complex problems with expressive yet carefully constrained language of representation
	310253	Web Technology	C304.1	Implement and analyze behavior of web pages using HTML and CSS
			C304.2	Apply the client side technologies for web development
			C304.3	Analyze the concepts of Servlet and JSP
			C304.4	Analyze the Web services and frameworks
			C304.5	Apply the server side technologies for web development
			C304.6	Create the effective web applications for business functionalities using latest web development platforms
	317522	Elective-1	C305.1	Differentiate between Embedded System & general computing systems
			C305.2	Describe ARM MCU Architecture and its features
			C305.3	Design Embedded firmware using Embedded C
			C305.4	Apply the fundamentals of RTOS to design Embedded Systems
			C305.5	Build the Embedded Linux based Embedded System
			C305.6	Summarize Embedded system security threats and solutions
	317523	Software Laboratory I(DBMS & AI)	C306.1	Implement SQL queries for given requirements, using different SQL concepts
			C306.2	Implement NoSQL queries using MongoDB
			C306.3	Design and develop application using database considering specific requirements
			C306.4	Design a system using different informed search / uninformed search or heuristic approaches
			C306.5	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.
			C306.6	Design and develop an interactive AI application
	317524	CN Laboratory	C307.1	Analyse the requirement of network types, topology and transmission media
			C307.2	Demonstrate the error control, flow control techniques and protocolsand analyze them.
			C307.3	Demonstrate the subnet formation with IP allocation mechanism and apply various routing algorithms
			C307.4	Develop Client server architectures and prototypes.
			C307.5	Implement web applicatios and services using application layer protocols
	317225	Elective I Laboratory	C308.1	Design Embedded firmware using Embedded C
			C308.2	Apply the fundamentals of RTOS to design Embedded Systems
			C308.3	Build the Embedded Linux based Embedded System
	317526	Seminar I	C309.1	Analysis specialized topic of interest from core area
			C309.2	Enhance Technical writing skills
			C309.3	Targeting specific problem and indentify working solution to resolve it.
			C309.4	Developing professional communication skill
	317527	Environmental Studies	C310.1	Aware the importance of environment
			C310.2	Understand the water pollution
			C310.3	Know the Air and noise pollution
			C310.4	Understand the E-waste and green computing
	317528	Audit Course 5	C311.1	Expand their knowledge of emotional patterns in themselves and others
			C311.2	Discover how to manage their emotions, and positively influence themselves and others
			C311.3	Build more effective relationships with people at work and home
			C311.4	Positively influence and motivate colleagues, team members and managers
			C311.5	Increase their leadership effectiveness by creating an atmosphere that engages others
	317529	Data Science	C312.1	Analyze needs and challenges for Data Science
			C312.2	Apply statistics for Data Analytics
			C312.3	Apply the lifecycle of Data analytics to real world problems
			C312.4	Implement Data Analytics using Python programming
			C312.5	Implement data visualization using visualization tools in Python programming
			C312.6	Design and implement Big Databases using the Hadoop ecosystem
	317530	Cyber Security	C313.1	Gauge the security protections and limitations provided by today's technology.
			C313.2	Identify cyber security threats.
			C313.3	Analyze threats in order to protect or defend it in cyberspace from cyber-attacks.

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TE SEM II (2022-23)			C313.4	Build appropriate security solutions against cyber-attacks
	317531	Artificial Neural Network	C314.1	Understand the basic features of neural systems and be able to build the neural model.
			C314.2	Perform the training of neural networks using various learning rules.
			C314.3	Grasping the use of Associative learning Neural Network
			C314.4	Describe the concept of Competitive Neural Networks
			C314.5	Implement the concept of Convolutional Neural Networks and its models
			C314.6	Use a new tool /tools to solve a wide variety of real-world problems
	317532	Elective - 2	C315.1	Understand the different Cloud Computing environment
			C315.2	Use appropriate data storage technique on Cloud, based on Cloud application
			C315.3	Analyze virtualization technology and install virtualization software
			C315.4	Develop and deploy applications on Cloud
			C315.5	Apply security in cloud applications
			C315.6	Use advance techniques in Cloud Computing
	317533	Software Laboratory II	C316.1	Model artificial Neural Network, and to analyze ANN learning, and its applications
			C316.2	Perform Pattern Recognition, Linear classification.
			C316.3	Develop different single layer/multiple layer Perception learning algorithms
			C316.4	Design and develop applications using neural networks.
	317534	Software Laboratory III	C317.1	Apply principles of Data Science for the analysis of real time problems
			C317.2	Implement data representation using statistical methods
			C317.3	Implement and evaluate data analytics algorithms
			C317.4	Perform text preprocessing
			C317.5	Implement data visualization techniques
			C317.6	Use cutting edge tools and technologies to analyze Data
	317535	Internship	C318.1	To demonstrate professional competence through industry internship.
			C318.2	To apply knowledge gained through academics to a professional environment during
			C318.3	To select appropriate technology and tools to solve a given real time problem.
			C318.4	To demonstrate abilities of a responsible professional and use ethical practices in day
			C318.5	To create professional and social network and develop relationships with industry people and get exposure to future employers.
			C318.6	To explore various career opportunities in different domains and decide career goals.
	317536	mini project	C319.1	Identify basic security attacks and services
			C319.2	Analyze the vulnerabilities and design a security solution.
			C319.3	Implement symmetric and asymmetric key algorithms
			C319.4	Demonstrate network security applications, Firewall, IDs.
	317537	Audit Course 6	C320.1	Understand the importance and fundamentals of digital marketing
			C320.2	Understand how the social media can be used for marketing
			C320.3	Analyze the effectiveness of digital marketing and social media over traditional