

IYEAR-I SEM

C101	ENGLISH	C101.1	Apply technical vocabulary in professional correspondence.
		C101.2	Develop speaking skills through participation in role plays and discussions.
		C101.3	Choose grammatically correct sentences in speech and in writing.
		C101.4	Show good understanding of academic lectures spoken by native speakers.
		C101.5	Demonstrate effective writing strategies for organized essays and report useful information.
		C101.6	Outline summaries based on global comprehension of reading / listening texts
C102	MATHEMATIC-1	C102.1	Solve sequences and series problems.
		C102.2	Understand and apply the mean value theorems for a given function.
		C102.3	Apply first order and first-degree ODE techniques in engineering problems.
		C102.4	Solve higher order differential equations.
		C102.5	Examine given function of two variables for its extreme values.
		C102.6	Evaluate double and triple integrals.
C103	APPLIED PHYSICS	C103.1	Apply the wave nature of light to various optical phenomena and related engineering applications.
		C103.2	Explain the working principle and use of laser in engineering science, Medicines & Industry and apply the concepts of optical fiber in communication systems.
		C103.3	Analyze the quantum mechanical model of electrons confined in a potential well or box including energy quantization and wave functions.
		C103.4	Classify the materials based on band theory of solids.
		C103.5	Explain the properties of dielectric and magnetic materials and their application in energy storage devices.
		C103.6	Classify types of semiconductors , role of carrier concentration in conductivity and Explain the behavior of materials at low temperatures and the applications of superconductivity
C104	P P S USING C	C104.1	Explain about the algorithms and to draw flowcharts for solving problems.
		C104.2	Apply different operators, data types and write programs that use two-way/multi-way selection.
		C104.3	Analyze the best loop construct for a given problem.
		C104.4	design and develop programs for developing different pointer applications.
		C104.5	Analyze a problem into functions and to develop modular reusable code.
		C104.6	apply File I/O operations for developing the applications.

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C105	COMPUTER ENGINEERING	C105.1	Understand the procedure for disassemble and assemble a personal computer.
		C105.2	Describe the procedure for interconnection of two or more computers.
		C105.3	Design slide presentation, document & spreadsheet preparation.
		C105.4	Interpret various antivirus software tools and its features.
C106	ENGLISH COMMUNICATIONS LAB	C106.1	Explain English speech sounds and word stress.
		C106.2	Apply knowledge of English pronunciation with intonation, and rhythm in speaking.
		C106.3	Interpret newspapers to understand key terminology and structures for effective report writing
		C106.4	Explain English speech sounds and word stress.
C107	APPLIED PHYSICS	C107.1	Operate optical instrument like Spectrometer & Travelling microscope.
		C107.2	Apply the concept of interference in thin film to determine the thickness of given spacer.
		C107.3	Make Use of Diffraction grating to form & analyze the spectra formed by Mercury Vapor lamp and determine its wavelengths.
C108	P P S USING C LAB	C108.1	Explain and Understanding Knowledge on various concepts of a C language.
		C108.2	Able to Develop flowcharts and write algorithms for the real world problems.
		C108.3	Analyze and decompose complex problems into modular components for effective design and development in programming.
		C108.4	Demonstrate the use of pointers and dynamic memory allocation (malloc, calloc) to manage memory in C programs.

IYEAR-II SEM

C111	MATHEMATICS II	C111.1	solve linear system of equations
		C111.2	Examine the eigen values and eigen vectors.
		C111.3	Obtain the canonical form to quadratic form.
		C111.4	Identify the approximate roots of algebraic and transcendental equations.
		C111.5	Summarise the concept of interpolation using various methods
		C111.6	Solve ordinary differential equations by using various numerical methods.
C112	APPLIED CHEMISTRY	C112.1	Utilize knowledge of different polymer types to choose suitable materials for engineering applications based on their properties.
		C112.2	Identify the various types of electrochemical cells, corrosion and its control methods.
		C112.3	Summarize the preparation, types and application of semiconductors.
		C112.4	Utilize various materials for modern advances of engineering technology.
		C112.5	Apply analytical instruments to identify various organic compounds and develop diverse renewable energy sources.

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		C112.6	Identify different computational chemistry methods and molecular machines.
C113	COMPUTER ORGANIZATION	C113.1	Outline the various number systems and their conversions.
		C113.2	simplify the Boolean expressions and build the logic circuits.
		C113.3	Explain Combinational and Sequential Logic Circuits.
		C113.4	Apply Computer Arithmetic and floating point operations in algorithms.
		C113.5	Explain the use of Micro operations and other instructions in understanding the architecture of digital computer.
		C113.6	Compare the types of memories ,their mapping functions and different methods for computer I/O
C114	PYTHON PROGRAMMING	C114.1	Interpret the concepts of data types, expressions and decision structures of python programming
		C114.2	Apply the basics of python programming in implementing control statements, strings and text files
		C114.3	Utilize lists, dectionaries, and functions, apply top-down and recursive design, manage namespaces, and analyze file system data in Python
		C114.4	Make use of functions, modules and packages of python programming
		C114.5	Analyze coding tasks related to file operations, OOP principles
		C114.6	Design and develop exceptions and GUI based applications
C115	DATA STRUCTURES	C115.1	Summarize the properties, interfaces, and behaviors of basic abstract data types.
		C115.2	Compare the computational efficiency of the principal algorithms for sorting & searching.
		C115.3	Apply stacks to solve problems such as reversing a list, converting infix expressions to postfix, and evaluating postfix expressions.
		C115.4	Analyze the advantages and limitations of different queue implementations and their suitability for specific problem domains.
		C115.5	Compare binary trees, binary search trees, and balanced trees.
		C115.6	Analyze the time and space complexity of graph algorithms, gaining insights into algorithmic optimization techniques.
C116	CHEMIST PV	C116.1	Utilize the concept for quantitative analysis in volumetric titrations to determine the concentration/amount of analytes
		C116.2	Apply various analytical techniques, and interpret the results for quantitative analysis.
		C116.3	Determine water quality parameters, such as hardness and alkalinity
C117	PP LAB	C117.1	Demonstrate proficiency in understanding and using various data types and containers, essential for foundational programming skills.
		C117.2	Apply basic Python programming concepts, including syntax, variables, and functions, to develop simple applications.
		C117.3	Design and implement solutions to coding problems by effectively using conditional statements and loops for control flow.
C118	DS LAB	C118.1	Apply basic data structures such as Arrays, stack, queues to solve the problems.
		C118.2	Build programs to demonstrate fundamental algorithmic problems including Tree

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		Traversals, Graph traversals, and shortest paths.
	C118.3	Implement various searching and sorting algorithms.

II YEAR – I SEM

C201	MATHEMATICS III	C201.1	Examine gradient of a scalar function, divergence and curl of a vector function.
		C201.2	Determine Laplace transform and inverse Laplace transform of a function.
		C201.3	Examine the Fourier series of a given function
		C201.4	solve problems related to Fourier integral theorem and summarize Fourier transform and inverse Fourier transform of a function
		C201.5	solve linear and non-linear Partial Differential equations
C202	OOPS CPP	C202.1	Classify object oriented programming and conventional programming
		C202.2	Apply C++ features such as composition of classes and objects and constructors and destructors
		C202.3	Build C++ classes using operator overloading and inheritance
		C202.4	Build C++ classes using pointers ,binding polymorphism and virtual functions
		C202.5	Apply object oriented techniques using Generic Programming with templates and exception handling to solve bigger computing problems
		C202.6	Solve real-world problems using object-oriented techniques
C203	OPERATING SYSTEM	C203.1	Identify the basic components of an operating system and their role in implementation for different computer architectures.
		C203.2	Analyze the concept of process, threads and CPU Scheduling algorithms for multitasking.
		C203.3	Identify mutual exclusion principles and their use in cooperating environment using semaphores and monitors.
		C203.4	Compare various memory management techniques and the concept of virtual memory.
		C203.5	Analyze various methods for handling deadlocks.
		C203.6	Analyze various file system implementations, and Disk scheduling algorithms.
C204	DBMS	C204.1	Apply the knowledge of fundamental concepts and basic principles of database management systems to identify the real world database applications.
		C204.2	Design conceptual schema using relational data model and the basic SQL commands.
		C204.3	Create the databases using SQL from conceptual schema designed using ER model.
		C204.4	Evaluate the design of the given database application scenario and apply normalization techniques to improve the database design.
		C204.5	Analyze transaction processing, concurrency control and recovery protocols in DBMS.
		C204.6	Analyze the physical design of a database system by examining database indexing techniques and evaluating storage technique.

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C205	DMGT	C205.1	Develop skills in solving mathematical problems.
		C205.2	Illustrate the basic application of set theory and relations.
		C205.3	Understanding of the basic concepts of Combinatorics.
		C205.4	Apply the basic concepts of Number theory to solve problems.
		C205.5	Solve the recurrence relations.
		C205.6	Apply the graph theory concepts.
C206	OOPS CPP LAB	C206.1	Apply the various OOPs concepts with the help of programs.
		C206.2	Evaluate basic data structures such as arrays and linked list.
		C206.3	Develop Programs to demonstrate fundamental algorithmic problems including Tree Traversals, Graph traversals, and short test paths.
		C206.4	Make Use various searching and sorting algorithms.
C207	OS LAB	C207.1	Make use of modern general-purpose operating systems UNIX/LINUX etc. Implement CPU scheduling algorithms for process scheduling.
		C207.2	Analyze various memory management techniques, & Implement various memory management and page replacement algorithms.
		C207.3	Utilize essential UNIX commands for file management, process control, and system navigation.
		C207.4	Analyze various file allocation strategies, inter-process communication, thread management and pthread library.
C208	DBMS LAB	C208.1	Apply the database concepts, technology and create the relations and, implement basic SQL commands.
		C208.2	Apply Queries using Advanced Concepts of SQL.
		C208.3	Apply constraints and joins to implement advanced SQL features.
		C208.4	Develop and execute PL/SQL program
C209	SOC I-LAB	C209.1	Apply the necessary knowledge and skills related to sqlite installation, DOT commands and database attachment and detachment.
		C209.2	Develop the knowledge and skills necessary to effectively manage data types, constraints and indexes in sqlite databases.
		C209.3	Make use of the SELECT statements, operators and aggregate functions in Sqlite database.
		C209.4	Utilize core database functions, joins, triggers and skills used to retrieve data from database

II YEAR–II SEM

C211	STATISTICS WITH R	C211.1	Apply the fundamentals, standards of Functions and capabilities of R-Language.
		C211.2	Make use of fundamentals in R programming such as variables, data types, control structures (loops, conditionals), and functions to solve data analysis problems.
		C211.3	Evaluate data processing techniques by reading, manipulating, and writing files effectively to support simulation tasks.
		C211.4	Analyze the principles of graphics and how to implement them using R-base graphics requires knowledge of programming.
		C211.5	Apply data-sets to create testable hypotheses and identify appropriate statistical tests.
		C211.6	Analyze statistical tests using R and edit visualizations with R.
C212	POSE	C212.1	Analyze software engineering principles, requirement specification and requirement validation for developing large software systems.
		C212.2	Evaluate the principles of object orientation, including encapsulation, inheritance, and polymorphism
		C212.3	Analyze system models for designing patterns.
		C212.4	Determine the importance of software maintenance and complexities involved in software evolution.
		C212.5	Apply estimation techniques, schedule project activities and compute pricing.
		C212.6	Analysing Agile process methodologies.
C213	ACD	C213.1	Apply the concepts of formal languages and regular expressions, including finite automata, and their applications in lexical analysis.
		C213.2	Apply context-free grammars and various parsing techniques such as LL and LR parsing.
		C213.3	Analyze the use of tools like YACC for programming specifications and handle parsing of ambiguous grammars.
		C213.4	Apply syntax-directed translation schemes, intermediate code generation, and type checking.
		C213.5	Evaluate runtime storage management and code optimization techniques, including flow graphs and data flow analysis.
		C213.6	Analyze machine-dependent code generation and optimization using directed acyclic graph (DAG) representations.
C214	JAVA PROGRAMMING	C214.1	utilize the concepts of Object-Oriented Programming and the Java Programming Constructs.
		C214.2	Make use of the concepts of Object Orientation like Objects, Classes, Methods, Constructors to solve problems.
		C214.3	Apply the concepts of Arrays to solve computational problems.
		C214.4	Apply the concepts of Inheritance and Interfaces to solve the real-world problem.
		C214.5	Examine the usage of Packages and Exception handling to build the Java Applications.
		C214.6	Analyze the methods of String handling, Survey the techniques of Multithreading and the front-end , back end through Java Database Connectivity.

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C215	MEFA	C215.1	Define about Managerial Economics & different types of demand
		C215.2	Explain different types of Production functions & Cost Concepts
		C215.3	Recall the nature of Markets and different Pricing methods
		C215.4	Define different forms of Business phases & Cycles
		C215.5	Summarize the concepts of Accounting
		C215.6	Analyze the Financial position of a company by using different techniques
C216	UML LAB	C216.1	Apply object oriented and design concepts to solve a given problem specifications.
		C216.2	Apply object oriented design to develop application.
		C216.3	Analyze the Engineering activities with effective presentation and report.
		C216.4	Analyze the case studies and design the model.
C217	FOSS LAB	C217.1	Construct regular expressions for pattern matching and apply them to various filters for a specific task.
		C217.2	Analyze a given problem and apply requisite facets of shell programming in order to devise a shell script to solve the problem.
		C217.3	Make use of awk to print specific fields and develop interactive grep and awk scripts.
		C217.4	Apply C programming skills to simulate Unix commands and system calls.
C218	JP LAB	C218.1	Develop Java applications using command line arguments, arrays and control structures and solve real word problems using OOP's Concepts.
		C218.2	Build Java applications by handling exceptions.
		C218.3	Construct concurrent applications by applying Multithreading, AWT concepts in java.
		C218.4	Construct Threads, Event handling implement packages, developing applets.
C219	SOC II-LAB	C219.1	Apply Installation process and configuring mongo db on windows
		C219.2	List all database operations using mongo db
		C219.3	Utilize database commands and shell scripting techniques in practical applications.

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III YEAR–I SEM

C301	COMPUTER NETWORKS	C301.1	Compare the OSI and TCP/IP models to assess their impact on network communication and architecture.
		C301.2	Evaluate and design effective data link layer services, protocols, including HDLC and PPP to optimize network communication.
		C301.3	Analyze medium access control protocols, such as ALOHA, CSMA, CSMA/CD, CSMA/CA, Polling, Token Passing, FDMA, TDMA, and CDMA, to determine their suitability for various network environments.
		C301.4	Evaluate various Ethernet protocols for data transmission to identify their strengths, weaknesses, and suitability for different networking scenarios.
		C301.5	Identify a suitable routing model with congestion control mechanism.
		C301.6	Analyze application layer services and client-server protocols, such as WWW, HTTP, FTP, email, and SNMP, within the client-server paradigm."
C302	DAA	C302.1	Examine the performance of a given algorithm and denote its time complexity using the asymptotic notations for recursive and non-recursive algorithms.
		C302.2	Apply Divide and Conquer, Greedy Method approaches to solve suitable problems.
		C302.3	Apply Dynamic Programming to real world problems.
		C302.4	Apply efficient graph algorithms to solve in common engineering design situations.
		C302.5	Apply Back Tracking algorithms to solve suitable problems.
		C302.6	Evaluate computational problems, including identifying and differentiating between complexity classes such as P, NP, NP-Hard, and NP-Complete.
C303	DMT	C303.1	Evaluate the key stages involved in building a data warehouse, including the design, implementation, and maintenance phases, while assessing their impact on overall data integrity and usability.
		C303.2	Identify the techniques of data preprocessing to ensure data quality and prepare data for analysis.
		C303.3	Apply similarity and dissimilarity measures to compare and classify data points effectively.
		C303.4	Analyze and assess the performance of algorithms used for generating and evaluating association rules in data mining.
		C303.5	Evaluate and compare various classification algorithms to understand their strengths, weaknesses, and suitability for different types of data.
		C303.6	Evaluate and compare clustering algorithms to understand their effectiveness in grouping data points and uncovering patterns.
C304	DL D	C304.1	Apply different number systems to generate various coding schemes.
		C304.2	Make Use the concept of Boolean algebra in minimization of switching functions.
		C304.3	Design different types of combinational logic circuits.
		C304.4	Apply knowledge of flip-flops in designing registers and counters.
		C304.5	Apply design methodologies and operational principles for synchronous sequential circuits and algorithmic state machines.
		C304.6	Apply innovative designs by modifying the traditional design techniques.

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C305	ARTIFICIAL INTELLIGENCE	C305.1	Examine the fundamental concepts in Artificial Intelligence.
		C305.2	Analyze the applications of search strategies and problem reductions.
		C305.3	Evaluate the natural deduction system and axiomatic system for propositional logic.
		C305.4	Apply propositional calculus to analyze and solve problems in various domains.
		C305.5	Analyze the strengths and limitations of different knowledge representation paradigms.
		C305.6	Analyze expert systems and traditional software systems.
C306	DMT WITH R LAB	C306.1	Assess and integrate R add-on packages to enhance data analysis techniques and improve overall analytical efficiency
		C306.2	Select the data from files and other sources to perform various data manipulation tasks.
		C306.3	Make use of R-Graphics and tables to show the results of various statistical operations.
		C306.4	Apply the knowledge of R for real world applications.
C307	CN LAB	C307.1	Identify different network interfaces and routing protocols.
		C307.2	Choose various services offered by transport layer such as TCP and UDP.
		C307.3	Analyse the application layer protocol and network security issues.
		C307.4	Apply the basics of networking protocols for solving real life networking problems.
C308	SOC III	C308.1	Analyze the stages of the Software Development Lifecycle (SDLC) and various process models to effectively manage software development projects."
		C308.2	Apply agile principles and methodologies such as Extreme Programming (XP) in software development.
		C308.3	Evaluate the implementation of DevOps practices, Continuous Integration (CI) and Continuous Delivery (CD) to enhance software delivery processes
C309	SUMMER	C309.1	Apply theoretical concepts to real-world engineering problems and projects.
		C309.2	Apply enhanced technical skills through hands-on experience with industry-standard tools and technologies.
		C309.3	Analyze the impact of professional work environments, organizational structures, and industry practices on effective collaboration and project success
C310	CSP	C310.1	Evaluate innovative solutions to address complex challenges and conceptual ideas
		C310.2	Make use of scientific reasoning to gather, evaluate, and interpret ideas.
		C310.3	Assess professional and ethical responsibility in all aspects of project work.

III YEAR –II SEM

C311	MACHINE LEARNING	C311.1	Compare various machine learning techniques to assess their effectiveness in solving specific problems
		C311.2	Apply linear regression for regression tasks and logistic regression for classification tasks, using their principles to guide analysis and decision-making
		C311.3	Analyze the ensemble learning and Random forest techniques.
		C311.4	Applying Support Vector Machines for solving classification and regression problems in various domains.
		C311.5	Evaluate the effectiveness of clustering techniques and dimensionality reduction models in machine learning.
		C311.6	Analyze the concept of Neural Network Architecture and Fundamental Concepts of Deep Learning.
C312	BDA	C312.1	Analyze the challenges of big data across various domains, including social media, transportation, finance, and medicine
		C312.2	Make Use of various techniques for mining data stream.
		C312.3	Apply Hadoop architecture to design and manage data workflows and HDFS.
		C312.4	Analyze the MapReduce job execution process, including task execution, failures, shuffle and sort mechanisms.
		C312.5	Applying Structure to Hadoop data with Hive And Pig.
		C312.6	Analyze various search methods and visualization techniques to assess their effectiveness in data interpretation
C313	CNS	C313.1	Classify the different types of Attacks, Services and mechanisms.
		C313.2	Classify the Symmetric Encryption Techniques.
		C313.3	Apply the public key cryptographic Techniques to Encrypt the data.
		C313.4	Solve cryptographic operations using public key cryptographic algorithms.
		C313.5	Apply the various authentication schemes to simulate different applications.
		C313.6	Analyze the various IP Security and System security issues.
C314	DP	C314.1	Construct a modular design that integrates a collection of components to achieve a specific functionality.
		C314.2	Evaluate well-known design patterns including Iterator, Observer, Factory, and Visitor, to know their applications and benefits in software development
		C314.3	Distinguish between different categories of design patterns
		C314.4	Apply common design patterns effectively within incremental and iterative development processes to improve software design and functionality
		C314.5	Identify suitable design patterns for addressing specific design problems.
		C314.6	Design the software using Pattern Oriented Architectures

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C315	POC	C315.1	Analyze the performance of analog modulation schemes in time and frequency domains.
		C315.2	Analyze the performance of angle modulated signals.
		C315.3	Compare signal sampling methods and various analog pulse modulation techniques.
		C315.4	Inspect the influence of channel noise on analog modulated signals.
		C315.5	Evaluate the performance of analog communication systems in terms of SNR.
		C315.6	Examine the various methods of digital transmission and error detection/correction codes.
C316	BDA LAB	C316.1	Analyze fundamental data structures in Java, focusing on their performance characteristics and practical applications in software development
		C316.2	Apply Hadoop configurations in various operating modes, and execute essential file management tasks using web-based tools for effective monitoring and administration
		C316.3	Develop and execute Map Reduce programs to solve various computational problems, demonstrating an understanding of distributed computing principles.
		C316.4	Apply Pig and Hive for data analysis tasks after installation and configuration, enhancing proficiency in big data processing and querying techniques
C317	ML LAB	C317.1	Build procedures for the machine learning algorithms.
		C317.2	Utilize python's built-in functions to design and evaluate unsupervised models for tasks such as clustering and dimensionality reduction.
		C317.3	Inspect machine learning models pre-processed through various feature engineering algorithms using Python programming.
		C317.4	Develop Machine Learning algorithms to solve real world problems.
C318	CNS LAB	C318.1	Apply the knowledge of symmetric cryptography to implement encryption and decryption
		C318.2	Compare different encryption algorithms, including DES, Blowfish, and Rijndael, to understand their functionalities and applications.
		C318.3	Apply the Blowfish algorithm to encrypt the text 'Hello world', showcasing proficiency in encryption techniques.
		C318.4	Analyze and implement public key algorithms
C319	SOC- IV LAB	C319.1	Analyze fundamental concepts and learning approaches in natural language processing (NLP) to understand their interconnections and applications.
		C319.2	Evaluate the impact of pre-processing methods on text data and their relevance to data analysis.
		C319.3	Compare different language modelling techniques

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C401	CLOUD COMPUTING	C401.1	Apply the knowledge of cloud computing to identify and address key challenges across various dimensions.
		C401.2	Classify the Levels of Virtualization and mechanism of tools.
		C401.3	Analyze inter cloud resource management in Google Cloud and Amazon Cloud.
		C401.4	Identify the needs for capacity building and training in cloud computing-related IT areas
		C401.5	Analyze combinatorial auctions for cloud resources and design scheduling algorithms to optimize cloud computing performance.
		C401.6	Analyse control storage systems and cloud security, the risks involved its impact and develop cloud application
C402	DEEP LEARNING TECHNIQUES	C402.1	Evaluate the fundamental concepts learning techniques of Artificial Intelligence, Machine Learning and Deep Learning
		C402.2	Build Neural Network and train various random models
		C402.3	Make Use of the Techniques of Kera's, TensorFlow to implement machine learning models.
		C402.4	Make Use of the Techniques of Theano and CNTK to build and optimize machine learning models
		C402.5	Analyze the concepts of Convolutional Neural Networks (CNN) and Recurrent Neural Networks (RNN) to understand their architectures and applications.
		C402.6	List Interactive Applications of Deep Learning across various domains.
C403	BLOCK CHAIN TECHNOLOGIES	C403.1	Analyze the block chain basics and Crypto currency.
		C403.2	Evaluate the use of private vs. public block chain and use cases.
		C403.3	Evaluate the concepts of Bitcoin usage and their prices.
		C403.4	Develop innovative blockchain solutions and scripts for Bitcoin and other cryptocurrencies, applying principles of blockchain technology.
		C403.5	Classify permissioned blockchains, including Hyper ledger and Corda, along with their respective use cases
		C403.6	Apply blockchain technology in e-governance, land registration, medical information systems, and other relevant domains to enhance transparency and security.
C404	INTERNET OF THINGS	C404.1	Explain the design, characteristics, and technologies of Internet of Things.
		C404.2	Make use of the different hardware and software components for IoT.
		C404.3	Analyze and implement the technologies required for the development of IoT applications.
		C404.4	Identify the device control for data management.
		C404.5	Identify the ability to upload/download sensor data on cloud and server.
		C404.6	Build cloud based IoT applications in real-time.

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C405	BASIC ELECTRONICS I	C405.1	Explain the formation of P-N junction and its applications.
		C405.2	Explain the operation and applications of special diodes.
		C405.3	Explain various configurations and characteristics of BJT.
		C405.4	Illustrate how BJT as an amplifier and switching modes.
		C405.5	Explain the operation and characteristics of different types of FETs.
		C405.6	Illustrate various 4-layer device.
C406	UNDERSTANDING HARMONY	C406.1	Understand and analyze the essentials of human values and skills, self exploration, happiness and prosperity.
		C406.2	Evaluate coexistence of the "I" with the body.
		C406.3	Identify and explain core universal human values and their significance in personal and social contexts.
		C406.4	Identify and evaluate the role of harmony in family, society and universal order.
		C406.5	Understand and associate the holistic perception of harmony at all levels of existence.
C407	SOC-V LAB	C407.1	Make use of Neural Network training and various random models.
		C407.2	Use optimization algorithms to analyze activation functions and enhance hyper parameter tuning.
		C407.3	Build a convolutional neural network, then a recurrent neural network, and use these to understand auto encoders.
C408	INTERNSHIP-V	C408.1	Apply theoretical concepts to real-world engineering problems and projects.
		C408.2	Make use of enhanced technical skills through hands-on experience with industry-standard tools and technologies.
		C408.3	Assess professional work environments, organizational structures, and industry practices.

IV YEAR–II SEM

C411	MAJOR PROJECT WORK	C411.1	Apply the technical knowledge to identify problems in the field of Computer Science and Engineering and its allied areas.
		C411.2	Develop the skills of independent and collaborative learning, alongside acquiring the expertise and awareness needed to implement designs that are both cost-effective and environmentally friendly.
		C411.3	Evaluate different solutions, considering factors such as efficiency, scalability, and maintainability.
		C411.4	Design and development of applications using modern tool usage.
		C411.5	Develop the ability to write technical report and to make oral presentation of the work carried out.