

Course Outcomes REV- 2019 ‘C’ Scheme

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Pillai HOC College of Engineering and Technology, Rasayani

Department of Information Technology

Name of the course: AM_III

Course code: ITC301

Class and Semester: SE IT/ III

AY: OSAY 20-21

Course Code	COURSE OUTCOMES
ITC301.1	Apply the concept of Laplace transform to solve the real integrals in engineering problems.
ITC301.2	Apply the concept of inverse Laplace transform of various functions in engineering problems.
ITC301.3	Expand the periodic function by using Fourier series for real life problem and complex engineering problems.
ITC301.4	Find orthogonal trajectories and analytic function by using basic concepts of complex variable theory.
ITC301.5	Apply the concept of correlation and Regression to the engineering problems in data science, machine learning and AI.
ITC301.6	Illustrate understanding of the concepts of probability and expectation for getting the spread of the data and distribution of probabilities.

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Department of Information Technology

Name of the course: Data Structure and Analysis

Course code: ITC302

Class and Semester: SE IT/ III

AY: OSAY 20-21

Course code	Course Outcomes
ITC302.1	Classify and Apply the concepts of stacks, queues and linked list in real life problem solving.
ITC302.2	Classify, apply and analyze the concepts trees in real life problem solving.
ITC302.3	Illustrate and justify the concepts of graphs in real life problem solving.
ITC302.4	List and examine the concepts of sorting, searching techniques in real life problem solving.
ITC302.5	Use and identify the concepts of recursion, hashing in real life problem solving.
ITC302.6	Examine and justify different methods of stacks, queues, linked list, trees and graphs to various applications.

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Department of Information Technology

Name of the course: DBMS

Course code: ITC303

Class and Semester: SE IT/ III

AY: OSAY 2020-21

Course Code	Course Outcomes
ITC303.1	Identify the need of Database Management System.
ITC303.2	Design conceptual model for real life applications.
ITC303.3	Create Relational Model for real life applications
ITC303.4	Formulate query using SQL commands.
ITC303.5	Apply the concept of normalization to relational database design.
ITC303.6	Concept of transaction, concurrency and recovery.

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Department of Information Technology

Name of the course: Principal of Communication

Course code: ITC304

Class and Semester: SE IT/ III

AY: OSAY 2020-21

Course Code	COURSE OUTCOMES
ITC304.1	Describe Analog and Digital communication systems
ITC304.2	Differentiate types of noise, analyses the Fourier transform of time and frequency domain
ITC304.3	Design transmitter and receiver of AM, DSB, SSB and FM
ITC304.4	Describe Sampling theorem and pulse modulation systems
ITC304.5	Explain multiplexing and digital band pass modulation techniques
ITC304.6	Describe electromagnetic radiation and propagation of waves

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Department of Information Technology

Name of the course: PCPF

Course code: ITC305

Class and Semester: SE IT/ III

AY: OSAY 20-21

Course Code	Course Outcomes
ITC305.1	Understand and compare different programming paradigms.
ITC305.2	Understand the Object Oriented Constructs and use them in program design.
ITC305.3	Understand the concepts of declarative programming paradigms through functional and logic programming.
ITC305.4	Design and Develop programs based on declarative programming paradigms using functional and/or logic programming
ITC305.5	Understand the role of concurrency in parallel and distributed programming.
ITC305.6	Understand different application domain for use of scripting languages.

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Department of Information Technology

Name of the course: Java Lab

Course code: ITL304

Class and Semester: SE IT/ III

AY: OSAY 20-21

Subject Code	COURSE OUTCOMES
ITL304.1	Explain the fundamental concepts of Java programming.
ITL304.2	Use the concepts of classes, objects, members of a class and the relationships among them needed for a finding the solution to specific problem.
ITL304.3	Demonstrate how to extend java classes and achieve reusability using Inheritance, Interface and Packages.
ITL304.4	Construct robust and faster programmed solutions to problems using concept of Multithreading, exceptions and file handling
ITL304.5	Design and develop Graphical User Interface using Abstract Window Toolkit and Swings along with response to the events.
ITL304.6	Develop Graphical User Interface by exploring JavaFX framework based on MVC architecture.

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Department of Information Technology

Name of the course: AM IV

Course code: ITC401

Class and Semester: SE IT/ IV

AY: ESAY 20-21

Subject Code	COURSE OUTCOMES
ITC401.1	Apply the concepts of Eigen values and Eigen vectors to solve engineering problems.
ITC401.2	Illustrate the use of concepts of Complex Integration for evaluating integrals, computing residues & evaluate various contour integrals.
ITC401.3	Apply the concept of z- transformation and its inverse in engineering problems.
ITC401.4	Apply the concept of probability distribution to engineering problems & testing hypothesis of small samples using sampling theory.
ITC401.5	Apply the concept of Linear Programming to solve the optimization problems.
ITC401.6	Use the Non-Linear Programming techniques to solve the optimization problems.

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Department of Information Technology

Name of the course: Computer Network and Network Design

Course code: ITC402

Class and Semester: SE IT/ IV

AY: ESAY 20-21

Subject Code	COURSE OUTCOMES
ITC402.1	Describe the functionalities of each layer of the models and compare the Models.
ITC402.2	Categorize the types of transmission media and explain data link layer concepts, design issues and protocols.
ITC402.3	Analyze the routing protocols and assign IP address to networks
ITC402.4	Explain the data transportation and session management issues and related protocols used for end-to-end delivery of data.
ITC402.5	List the data presentation techniques and illustrate the client/server model in application layer protocols.
ITC402.6	Use of networking concepts of IP address, Routing, and application services to design a network for an organization

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Department of Information Technology

Name of the course: OS

Course code: ITC403

Class and Semester: SE IT/ IV

AY: ESAY 20-21

Subject Code	COURSE OUTCOMES
ITC403.1	Understand basic knowledge, functions and services of Operating system as system software
ITC403.2	To study and understand the process of management and scheduling
ITC403.3	Student will able to understand various issues in IPC and role of OS in IPC.
ITC403.4	Solve the deadlock problems and apply various techniques
ITC403.5	Identify the role of process synchronization towards increasing throughput of the system
ITC403.6	Recognize the various data structures used by different OS like Windows XP, Linux and Unix.

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Department of Information Technology

Name of the course: Automata Theory

Course code: ITC404

Class and Semester: SE IT/ IV

AY: ESAY 20-21

Subject Code	COURSE OUTCOMES
ITC404.1	Explain, analyze and design Regular languages, Expression and Grammars.
ITC404.2	Design different types of Finite Automata and Machines as Acceptor, Verifier and Translator.
ITC404.3	Analyze and design Context Free languages and Grammars.
ITC404.4	Design different types of Pushdown Automata as Simple Parser.
ITC404.5	Design different types of Turing Machines as Acceptor, verifier, Translator and Basic computing machine.
ITC404.6	Develop understanding of applications of various Automata.

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Department of Information Technology

Name of the course: COA

Course code: ITC405

Class and Semester: SE IT/ IV

AY: ESAY 20-21

Subject Code	COURSE OUTCOMES
ITC 405.1	Demonstrate the fundamentals of Digital Logic Design
ITC 405.2	Describe basic organization of computer, the architecture of 8086 microprocessor and implement assembly language programming for 8086 microprocessors.
ITC 405.3	Demonstrate control unit operations and conceptualize instruction level parallelism.
ITC 405.4	List and identify integers and real numbers and perform computer arithmetic operations on integers.
ITC 405.5	Categorize memory organization and explain the function of each element of a memory hierarchy.
ITC 405.6	Examine different methods for computer I/O mechanism.

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Department of Information Technology

Name of the course: Python

Course code: ITL 404

Class and Semester: SE IT/ IV

AY: ESAY 2020-21

Subject Code	COURSE OUTCOMES
ITL 404.1	Understand the structure, syntax, and semantics of the Python language.
ITL 404.2	Interpret advanced data types and functions in python.
ITL 404.3	Illustrate the concepts of object-oriented programming as used in Python
ITL 404.4	Create Python applications using modules, packages, multithreading and exception handling.
ITL 404.5	Gain proficiency in writing File Handling programs, also create GUI applications and evaluate database operations in python.
ITL 404.6	Design and Develop cost-effective robust applications using the latest Python trends and technologies

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Department of Information Technology

Name of the course: Internet Programming

Course code: ITC501

Class and Semester: TE IT/ V

AY: OSAY 21-22

	COURSE OUTCOMES
ITC501.1	Select protocols or technologies required for various web applications.
ITC501.2	Apply JavaScript to add functionality to web pages.
ITC501.3	Design front end applications using React
ITC501.4	Design front end applications using functional components of React.
ITC501.5	Design backend applications using Node.js
ITC501.6	Construct web based Node.js application using Express.

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Department of Information Technology

Name of the course: Computer Network Security

Course code: ITC502

Class and Semester: TE IT/ V

AY: OSAY 21-22

	COURSE OUTCOMES
ITC 502.1	Explain the fundamentals concepts of computer security and network security.
ITC 502.2	Identify the basic cryptographic techniques using classical and block encryption methods
ITC 502.3	Study and describe the system security malicious software.
ITC 502.4	Describe the Network layer security, Transport layer security and application layer security.
ITC 502.5	Explain the need of network management security and illustrate the need for NAC.
ITC 502.6	Identify the function of an IDS and firewall for the system security.

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Name of the course: Entrepreneurship and e- business

Course code: ITC503

Class and Semester: TE IT/ V

AY: OSAY 21-22

	COURSE OUTCOMES
ITC503.1	Understand the concept of entrepreneurship and its close relationship with enterprise and owner-management.
ITC503.2	Understand the nature of business development in the context of existing organizations and of new business start-ups.
ITC503.3	Comprehended important factors for starting a new venture and business development.
ITC503.4	Know issues and decisions involved in financing and resourcing a business start-up
ITC503.5	Describe various E-business Models
ITC503.6	Discuss various E-business Strategies.

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Name of the course: Software Engineering

Course code: ITC504

Class and Semester: TE IT/ V

AY: OSAY 21-22

	COURSE OUTCOMES
ITC 504.1	Understand the use basic knowledge in software engineering.
ITC 504.2	Identify requirements, analyze and prepare models.
ITC 504.3	Plan, schedule and track the progress of the projects.
ITC 504.4	Design & develop the software solutions for the growth of society.
ITC 504.5	To demonstrate and evaluate real time projects with respect to software engineering principles
ITC 504.6	Apply testing and assure quality in software solution.

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Name of the course: Devops

Course code: ITL503

Class and Semester: TE IT/ V

AY: OSAY 21-22

	COURSE OUTCOMES
ITL503.1	To understand the fundamentals of Devops engineering and be fully proficient with DevOps terminologies, concepts, benefits and deployment options to meet your business requirements.
ITL503.2	To obtain complete knowledge of the "version control system" to effectively track changes augmented with Git and GitHub.
ITL503.3	To understand the importance of Jenkins to build and deploy Software applications on server environment.
ITL503.4	Understand the importance of selenium and Jenkins to test Software Applications.
ITL503.5	To understand concept of containerization and analyze the containerization of OS images and deployment of applications over Docker
ITL503.6	To Synthesis software configuration and provisioning using Ansible.

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Name of the course: Advance Devops

Course code: ITL504

Class and Semester: TE IT/ V

AY: OSAY 21-22

	COURSE OUTCOMES
ITL504.1	To understand the fundamentals of Cloud Computing and be fully proficient with cloud based DevOPs solution deployment options to meet your business requirements.
ITL504.2	To deploy single and multiple container application and manage application deployments with rollouts in Kubernetes.
ITL504.3	To apply best practices for managing infrastructure as code environments and use terraform to define and deploy cloud infrastructure.
ITL504.4	To identify and remediate application vulnerabilities earlier and help integrate security in the development process using SAST Techniques.
ITL504.5	To use Continuous Monitoring Tools to resolve any system errors before they have any negative impact on the business productivity.
ITL504.6	To engineer a composition of nano services using AWS Lambda and Step Functions with the Server less Framework.

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Name of the course: Advanced Data Management Technology

Course code: ITDO5012

Class and Semester: TE IT/ V

AY: OSAY 21-22

	COURSE OUTCOMES
ITDO5012.1	Measure query costs and design alternate efficient paths for query execution.
ITDO5012.2	Explain and understand the concept of a transaction and how ACID properties are maintained when concurrent transaction occur in a database
ITDO5012.3	Apply sophisticated access protocols to control access to the database.
ITDO5012.4	Implement alternate models like Distributed databases and Design applications using advanced models like mobile, spatial databases.
ITDO5012.5	Organize strategic data in an enterprise and build a data Warehouse.
ITDO5012.6	Analyze data using OLAP operations so as to take strategic decisions.

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Department of Information Technology

Name of the course: DMBI

Course code: ITC601

Class and Semester: TE IT/ VI

AY: ESAY 21-22

Subject Code	COURSE OUTCOMES
ITC 601.1	Demonstrate an understanding of the importance of data mining and the principles of business intelligence.
ITC 601.2	Organize and Prepare the data needed for data mining using pre pre-processing techniques.
ITC 601.3	Perform exploratory analysis of the data to be used for mining.
ITC 601.4	Implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on large data sets.
ITC 601.5	Define and apply metrics to measure the performance of various data mining algorithms.
ITC 601.6	Apply BI to solve practical problems: Analyze the problem domain, use the data collected in enterprise, apply the appropriate data mining technique, interpret and visualize the results and provide decision support.

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Department of Information Technology

Name of the course: Web X.0

Course code: ITC602

Class and Semester: TE IT/ VI

AY: ESAY 21-22

Subject Code	COURSE OUTCOMES
ITC602.1	Understand the basic concepts of web analytics and web semantics
ITC602.2	Understand how Typescript can help you eliminate bugs in your code and enable you to scale your code
ITC602.3	Using Angular JS framework and build dynamic dynamic , responsive single page web applications.
ITC602.4	Apply MongoDB for frontend and backend connectivity using REST API
ITC602.5	Apply Flask web development framework to build web applications with less code
ITC602.6	Develop rich internet applications using proper choice of framework.

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Department of Information Technology

Name of the course: Wireless Technology

Course code: ITC603

Class and Semester: TE IT/ VI

AY: ESAY 21-22

Subject Code	COURSE OUTCOMES
ITC 603.1	Describe the basic concepts of Wireless Network and Wireless Generations.
ITC 603.2	Demonstrate and evaluate the various Wide area Wireless Technologies.
ITC 603.3	Analyze the prevalent IEEE standards used for implementation of WLAN and WMAN Technologies.
ITC 603.4	Appraise the importance of WPAN, WSN and Adhoc Networks.
ITC 603.5	Analyze various Wireless Network Security Standards.
ITC 603.6	Review the design considerations for deploying the Wireless Network Infrastructure.

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Department of Information Technology

Name of the course: AI_DS_I

Course code: ITC604

Class and Semester: TE IT/ V

AY: ESAY 21-22

Subject Code	COURSE OUTCOMES
ITC604.1	Develop a basic understanding of the building blocks of AI as presented in terms of intelligent agents.
ITC604.2	Apply an appropriate problem-solving method and knowledge-representation scheme.
ITC604.3	Develop an ability to analyze and formalize the problem (as a state space, graph, etc.). They will be able to evaluate and select the appropriate search method.
ITC604.4	Apply problem solving concepts with data science and will be able to tackle them from a statistical perspective.
ITC604.5	Choose and apply appropriately from a wider range of exploratory and inferential methods for analyzing data and will be able to evaluate and interpret the results contextually.
ITC604.6	Understand and apply types of machine learning methods for real world problems.

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Department of Information Technology

Name of the course: EHF(DLOC)

Course code: ITDO 6014

Class and Semester: TE IT/ V

AY: ESAY 21-22

Subject Code	COURSE OUTCOMES
ITDO 6014.1	To Understand the concept of Ethical Hacking
ITDO 6014.2	To explore, Analyze need of digital forensic and role of digital evidences and Incident response.
ITDO 6014.3	To explore the knowledge of Computer Forensics.
ITDO 6014.4	To Explore Network Attacks and Analyze the evidence
ITDO 6014.5	To learn and Apply the knowledge of computer Forensics using different tools and techniques.
ITDO 6014.6	To learn method to generate legal evidence and supporting investigation reports.

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Department of Information Technology

Name of the course: MAD and PWD Lab

Course code: ITL604

Class and Semester: TE IT/ V

AY: ESAY 21-22

Subject Code	COURSE OUTCOMES
ITL604.1	Understand cross platform mobile application development using Flutter framework.
ITL604.2	Design and Develop interactive Flutter App by using widgets, layouts, gestures and animation.
ITL604.3	Analyze and Build production ready Flutter App by incorporating backend services and deploying on Android / iOS.
ITL604.4	Understand various PWA frameworks and their requirements
ITL604.5	Design and Develop a responsive User Interface by, applying PWA Design Techniques.
ITL604.6	Develop and Analyze PWA Factures and deploy ,it over app hosting solutions

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Department of Information Technology

Name of the course: AI_DS II

Course code: ITC701

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITC 701.1	To Design models of reasoning with uncertainty as well as use of Unreliable information.
ITC 701.1	To study and analyze the process of building a cognitive application.
ITC 701.1	To study fuzzy system and how to design Fuzzy controller system
ITC 701.1	To apply learning concepts and develop real life applications.
ITC 701.1	To evaluate performance metrics of classifiers and study various learning algorithms.
ITC 701.1	To Analyze current trends in Data Science.

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Department of Information Technology

Name of the course: Internet Of Everything

Course code: ITC702

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITC702.1	Describe the Characteristics and Conceptual Framework of IoT.
ITC702.2	Differentiate between the levels of the IoT architectures.
ITC702.3	Analyze the IoT access technologies.
ITC702.4	Illustrate various edge to cloud protocol for IoT.
ITC702.5	Apply IoT analytics and data visualization.
ITC702.6	Analyze and evaluate IoT applications.

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Department of Information Technology

Name of the course: Infrastructure Security

Course code: ITDO7013

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITDO7013.1	Understand the concept of vulnerabilities, attacks and protection mechanisms.
ITDO7013.2	Analyze and evaluate software vulnerabilities and attacks on databases and operating systems.
ITDO7013.3	Explain the need for security protocols in the context of wireless communication.
ITDO7013.4	Understand and explain various security solutions for Cloud infrastructure.
ITDO7013.5	Understand, and evaluate different attacks on Open Web Applications and Web services.
ITDO7013.6	Design appropriate security policies to protect infrastructure components.

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Department of Information Technology

Name of the course: Software Testing and QA

Course code: ITDLO7014

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITDO7014.1	Investigate the reason for bugs and analyze the principles in software testing to prevent and remove bugs.
ITDO7014.2	Understand various software testing methods and strategies.
ITDO7014.3	Manage the testing process and testing metrics
ITDO7014.4	Understand fundamental concepts of software automation and use automation tools.
ITDO7014.5	Apply the software testing techniques in the real time environment.
ITDO7014.6	Use practical knowledge of a variety of ways to test software and quality attributes.

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Department of Information Technology

Name of the course: Information Retrieval System

Course code: ITDLO7024

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITDO7024.1	Define and describe the objectives of the basic concepts of the Information retrieval system.
ITDO7024.2	Evaluate the taxonomy of different information retrieval models.
ITDO7024.3	Try to solve and process text and multimedia retrieval queries and their operations.
ITDO7024.4	Evaluate text processing techniques and operations in the information retrieval system.
ITDO7024.5	Demonstrate and evaluate various indexing and searching techniques.
ITDO7024.6	Design the user interface for an information retrieval system.

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Department of Information Technology

Name of the course: Management Of Information System

Course code: ILO7013

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ILO7013.1	Explain how information systems Transform Business.
ILO7013.2	Identify the impact information systems have on an organization.
ILO7013.3	Describe IT infrastructure and its components and its current trends.
ILO7013.4	Understand the principal tools and technologies for accessing information from databases to improve business performance and decision making.
ILO7013.5	Identify the types of systems used for enterprise-wide knowledge management and how they provide value for businesses.
ILO7013.6	Identify the basic steps in systems development.

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Department of Information Technology

Name of the course: Cyber Security & laws

Course code: ILO7016

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ILO7016.1	Understand the concept of cybercrime and its effect on outside world
ILO7016.2	To identify the various cyber offences and cybercrimes and understand the various countermeasures to handle it.
ILO7016.3	To study and apply various tools and methods used in cyber line
ILO7016.4	Distinguish different aspects of cyber law and interpret how to apply cyber laws in various legal issues.
ILO7016.5	To study Indian IT Act 2008 and its latest amendments
ILO7016.6	Apply Information Security Standards compliance during software design and development

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Department of Information Technology

Name of the course: Secure Application Development

Course code: ITL703

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITL703.1	Apply secure programming of application code.
ITL703.2	Understand the Owasp methodologies and standards.
ITL703.3	Identify main vulnerabilities inherent in applications.
ITL703.4	Apply Data Validation and Authentication for application.
ITL703.5	Apply Security at Session Layer Management.
ITL703.6	Apply secure coding for cryptography.

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Name of the course: Recent Open Source Project Lab

Course code: ITL704

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITL704.1	Understand and apply the basic concepts of Open Source Software.
ITL704.2	Identify the difference between the GPL(General Public License) and Contribute to Open Source.
ITL704.3	Apply and evaluate your knowledge for the Contribute to Open Source in different Operating System.
ITL704.4	Apply and evaluate your knowledge for the Contribute to Open Source in different Technologies.
ITL704.5	Apply and evaluate your knowledge for the Contribute to Open Source in different Network Management.
ITL704.6	Apply and evaluate your knowledge for the Contribute to Open Source in different Applications and Services.

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Department of Information Technology

Name of the course: Major Project I

Course code: ITM701

Class and Semester: BE IT/ VII

AY: OSAY 22-23

Subject Code	COURSE OUTCOMES
ITM701.1	Identify problem based on societal/research needs and apply knowledge to solve it in a group.
ITM701.2	Develop interpersonal skills to work as a member of a group or a leader.
ITM701.3	Analyze the impact of solutions in societal and environmental context for sustainable development.
ITM701.4	Use standard norms of engineering practices and excel in written and oral communication.
ITM701.5	Demonstrate capabilities of self- learning in a group which leads to lifelong learning.
ITM701.6	Demonstrate project management principles during project work.

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Name of the course: Block chain & DLT

Course code: ITC 801

Class and Semester: BE IT/ VIII

AY: ESAY 22-23

Subject Code	COURSE OUTCOMES
ITC801.1	Describe the basic concept of Blockchain and Distributed Ledger Technology
ITC801.2	Interpret the knowledge of the Bitcoin network, nodes, keys, wallets and transaction
ITC801.3	Implement smart contracts in Ethereum using different development frameworks.
ITC801.4	Develop applications in permissioned Hyperledger Fabric network
ITC801.5	Interpret different Crypto assets and Crypto currencies
ITC801.6	Analyze the use of Blockchain with AI, IoT and Cyber Security using case studies.

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Department of Information Technology

Name of the course: Big Data Analytics

Course code: ITDLO 8011

Class and Semester: BE IT/ VIII

AY: ESAY 22-23

Subject Code	COURSE OUTCOMES
ITDO8011.1	Explain the motivation for big data systems and identify the main sources of Big Data in the real world.
ITDO8011.2	Demonstrate an ability to use frameworks like Hadoop, NOSQL to efficiently store, retrieve and process Big Data for Analytics.
ITDO8011.3	Implement several Data Intensive tasks using the Map Reduce Paradigm
ITDO8011.4	Apply several newer algorithms for Clustering Classifying and finding associations in Big Data.
ITDO8011.5	Design algorithms to analyze Big data like streams, Web Graphs and Social Media data.
ITDO8011.6	Design and implement successful Recommendation engines for enterprises.

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Name of the course: User Interface Design

Course code: ITDLO 8021

Class and Semester: BE IT/ VIII

AY: ESAY 22-23

Subject Code	COURSE OUTCOMES
ITD08021.1	Identify and criticize bad features of interface designs.
ITD08021.2	Predict good features of interface designs
ITD08021.3	Illustrate and analyze user needs and formulate user design specifications
ITD08021.4	Interpret and evaluate the data collected during the process
ITD08021.5	Evaluate designs based on theoretical frameworks and methodological approaches.
ITD08021.6	Apply better techniques to improve the user interaction design interfaces.

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Name of the course: Cloud Computing and services

Course code: ITDO8024

Class and Semester: BE IT/ VIII

AY: ESAY 22-23

Subject Code	COURSE OUTCOMES
ITDO8024.1	Explain the basics concepts of cloud computing like service models, deployment models and its architecture.
ITDO8024.2	Describe and apply virtualization in cloud computing.
ITDO8024.3	Use and Analyze different cloud computing services.
ITDO8024.4	Understand and apply various services provided by Amazon Web Services cloud platform.
ITDO8024.5	Discuss the functionality of Openstack cloud platform & Severless computing.
ITDO8024.6	Recognize and examine the security and privacy concerns in cloud computing.

Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Information Technology

Name of the course: Project Management

Course code: ILO8011

Class and Semester: BE IT/ VIII

AY: ESAY 22-23

Subject Code	COURSE OUTCOMES
ILO8011.1	Apply selection criteria and select an appropriate project from different options.
ILO8011.2	Write work break down structure for a project and develop a schedule based on it.
ILO8011.3	Identify opportunities and threats to the project and decide an approach to deal with them strategically.
ILO8011.4	Use Earned value technique and determine & predict status of the project.
ILO8011.5	Capture lessons learned during project phases and document them for future reference.

Mahatma Education Society's

Pillai HOC College of Engineering and Technology, Rasayani

Department of Information Technology

Name of the course: Major Project II

Course code: ITP 802

Class and Semester: BE IT/ VIII

AY: ESAY 22-23

Subject Code	COURSE OUTCOMES
ITP802.1	Identify problem based on societal/research needs and apply knowledge to solve it in a group.
ITP802.2	Develop interpersonal skills to work as a member of a group or a leader.
ITP802.3	Analyze the impact of solutions in societal and environmental context for sustainable development.
ITP802.4	Use standard norms of engineering practices and excel in written and oral communication.
ITP802.5	Demonstrate capabilities of self- learning in a group which leads to lifelong learning.
ITP802.6	Demonstrate project management principles during project work.