



SRM ENGINEERING COLLEGE
(Autonomous)
 Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
 Accredited by NBA (AERO, CSE, ECE & MECH), NAAC with "A+" and Recognised by UGC (2f & 12B)
KOMARAPALAYAM - 637303
Department of Information Technology
Course Outcomes Regulation 2017
Batch 2017-2021,2018-2022 & 2019-2023

Sem : 1	Sub Code & Name :	HS8151 Communicative English
CO No	Course Outcome	
C101.1	Read and understand articles of a general kind in magazines and newspapers.	
C101.2	Participate effectively in Formal and informal conversations; introduce themselves and their	
C101.3	Comprehend conversations and short talks delivered in English	
C101.4	Write short essays of a general kind and personal letters and emails in English.	
C101.5	Speak in informal group activities	

Sem : 1	Sub Code & Name :	MA8151 Engineering Mathematics –I
CO No	Course Outcome	
C102.1	Use both the limit definition and rules of differentiation to differentiate functions.	
C102.2	Apply the functions of several variables in engineering field.	
C102.3	integration by parts.	
C102.4	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.	
C102.5	Apply various techniques in solving differential equations.	

Sem : 1	Sub Code & Name :	PH8151 Engineering Physics
CO No	Course Outcome	
C103.1	Gain knowledge on the basics of properties of matter and its applications,	
C103.2	Acquire knowledge on the concepts of waves and optical devices and their applications in fibre	
C103.3	Adequate knowledge on the concepts of thermal properties of materials and their applications in	
C103.4	Get knowledge on advanced physics concepts of quantum theory and its applications in tunneling	
C103.5	Understand the basics of crystals, their structures and different crystal growth techniques.	

Sem : 1	Sub Code & Name :	CY8151 Engineering Chemistry
CO No	Course Outcome	
C104.1	Understanding polymerization and some important industrial polymers.	
C104.2	Learn Thermodynamic properties and their inter relationship.	
C104.3	Acquaint with UV and IR spectral analysis.	
C104.4	Know the principles of cooling curves and alloys.	
C104.5	Acquire knowledge of Nano and micro structure materials.	

Sem : 1	Sub Code & Name :	GE8151 Problem Solving and Python Programming
CO No	Course Outcome	
C105.1	Apply algorithm, pseudo code and flow chart for problem solving.	
C105.2	Write simple Python programs.	
C105.3	Develop Python programs with various programming constructs and functions.	
C105.4	Implement lists, tuples and dictionaries in various applications.	
C105.5	Use of files and file operations efficiently.	

Sem : 1	Sub Code & Name :	GE8152 Engineering Graphics
CO No	Course Outcome	
C106.1	Perform free hand sketching of basic geometrical constructions, multiple views of objects and	
C106.2	Do orthographic projection of lines and plane surfaces inclined to both the principal planes by	
C106.3	Draw projections of solids like prisms, pyramids, cylinder, cone and truncated solids.	
C106.4	Draw development of surfaces of solids like prisms, pyramids, cylinder, cone and truncated solids.	
C106.5	Prepare isometric and perspective sectional views of simple solids with cut-outs and holes.	

Sem : 1	Sub Code & Name :	GE8161 Problem Solving and Python Programming Laboratory
CO No	Course Outcome	
C107.1	Write, test, and debug simple Python programs	
C107.2	Implement Python programs with suitable language constructs	
C107.3	Use functions effectively for structuring Python programs	
C107.4	Apply suitable data structures in various applications	
C107.5	Develop python applications using files	

Sem : 1	Sub Code & Name :	BS8161 Physics and Chemistry Laboratory
CO No	Course Outcome	
C108.1	Analyze the mechanical properties and thermal properties of materials	
C108.2	Acquire the practical knowledge about band gap of a semiconductor and in optics such as	
C108.3	Gaining the knowledge of electrochemical redox reaction	
C108.4	Apply knowledge of measurement of hardness producing ions, alkalinity, conductance, EMF	
C108.5	Understand the impact of water quality and to solve engineering problems	

Sem : 2	Sub Code & Name :	HS8251 Technical English
CO No	Course Outcome	
C109.1	Read technical texts and write area- specific texts effortlessly.	
C109.2	Listen and comprehend lectures and talks in their area of specialisation successfully.	
C109.3	Speak appropriately and effectively in varied formal and informal contexts	
C109.4	Write reports and winning job applications.	
C109.5	Perform better in interview through various softskills	

Sem : 2	Sub Code & Name :	MA8251 Engineering Mathematics – II
CO No	Course Outcome	
C110.1	Understand the use of matrix algebra techniques that is needed by engineers for practical	
C110.2	Apply the concept of vector calculus in Engineering disciplines	
C110.3	Evaluate the standard techniques of complex variable to solve core Engineering problems.	
C110.4	Analysis the real integrals by applying concept of complex integration.	
C110.5	Understand the knowledge of Laplace Transforms in solving Ordinary Differential Equations.	

Sem : 2	Sub Code & Name :	PH8252 Physics For Information Science
CO No	Course Outcome	
C111.1	Gain knowledge on classical and quantum electron theories, and energy band structures .	
C111.2	Acquire knowledge on basics of semiconductor physics and its applications in various devices .	
C111.3	Get knowledge on magnetic properties of materials and their applications in data storage.	
C111.4	Have the necessary understanding on the functioning of optical materials for optoelectronics .	
C111.5	Understand the basics of quantum structures and their applications in carbon electronics.	

Sem : 2	Sub Code & Name :	BE8255 Basic Electrical , Electronics and Measurement Engineering
CO No	Course Outcome	
C112.1	The essentials of electric circuits and analysis.	
C112.2	The basic operation of electric machines and transformers	
C112.3	Introduction of renewable sources and common domestic loads.	
C112.4	Understand the fundamentals of electronic circuit constructions	
C112.5	Introduction to measurement and metering for electric circuits.	

Sem : 2	Sub Code & Name :	GE8291 Information Technology Essentials
CO No	Course Outcome	
C113.1	Design and deploy web-sites	
C113.2	Design and deploy simple web-applications	
C113.3	Create simple database applications	
C113.4	Develop information system	
C113.5	Describe the basics of networking and mobile communications	

Sem : 2	Sub Code & Name :	CS8251 Programming in C
CO No	Course Outcome	
C114.1	Develop simple applications in C using basic constructs.	
C114.2	Write an application with the effective use string manipulation, matrix, sorting and searching.	
C114.3	Create an effective application in C by using functions and pointers.	
C114.4	Create an effective application using structure and linked list.	
C114.5	Design applications and develop using file processing techniques with sequential and random	

Sem : 2	Sub Code & Name :	GE8261 Engineering Practices Laboratory
CO No	Course Outcome	
C115.1	Illustrate the basic wiring connection of electrical components	
C115.2	Measure the electrical quantities of circuits	
C115.3	Recall and Apply the basics of electronic principles to the circuits	
C115.4	Develop the fabrication of electronic circuits to improve their knowledge	
C115.5	Analyze the circuit for application oriented	

Sem : 2	Sub Code & Name :	CS8261 C Programming Laboratory
CO No	Course Outcome	
C116.1	Develop simple applications in C using basic constructs	
C116.2	Write an application with the effective use string manipulation, matrix, sorting and searching	
C116.3	Create an effective application in C by using functions and pointers	
C116.4	Create an effective application using structure and linked list	
C116.5	Design an applications and develop using file processing techniques with sequential and random	

Sem : 2	Sub Code & Name :	IT8201 INFORMATION TECHNOLOGY ESSENTIALS
CO No	Course Outcome	
C117.1	Create client side and server side programs using scripts using PHP	
C117.2	Design dynamic web sites and handle multimedia components	
C117.3	Create applications with PHP connected to database.	
C117.4	Design interactive websites using basic HTML tags, different styles, links and menu and basic control elements	
C117.5	Implement the technologies behind computer networks and mobile communication.	

Sem : 3	Sub Code & Name :	MA8351 DISCRETE MATHEMATICS
CO No	Course Outcome	
C201.1	Implement abstract data types for linear data structures	
C202.2	Apply the different linear and non-linear data structures to problem solutions.	
C201.3	Critically analyze the various sorting algorithms.	
C202.4	To familiarize the applications of algebraic structures	
C201.5	To understand the basic concepts of combinatorics and graph theory.	

Sem : 3	Sub Code & Name :	CS8351 Digital Principles and System Design
CO No	Course Outcome	
C202.1	Simplify the Boolean expression using k-map and tabulation techniques	
C202.2	Design and analyze combinational circuits	

C202.3	Construct the Synchronous Sequential Circuits
C202.4	Design Asynchronous Sequential Circuits
C202.5	Implement memory arrays using Programmable logic Devices

Sem : 3	Sub Code & Name :	CS8391 Data Structures
CO No	Course Outcome	
C203.1	Implement abstract data types for list linear data structures.	
C203.2	Acquire knowledge about the linear data structures stack and queue with its operations.	
C203.3	Apply non-linear data structure trees to problem solutions.	
C203.4	Apply non-linear data structure graphs to problem solutions.	
C203.5	Critically analyze the various sorting, searching algorithms and hashing techniques.	

Sem : 3	Sub Code & Name :	CS8392 Object Oriented Programming
CO No	Course Outcome	
C204.1	Understand Object Oriented Programming concepts and basic characteristics of Java	
C204.2	Know the principles of packages, inheritance and interfaces	
C204.3	Define exceptions and use I/O streams	
C204.4	Develop a java application with threads and generics classes	
C204.5	Design and build simple Graphical User Interfaces	

Sem : 3	Sub Code & Name :	EC8394 Analog and Digital Communication
CO No	Course Outcome	
C205.1	Apply analog and digital communication techniques	
C205.2	Use data and pulse communication techniques	
C205.3	Analyze Source and Error control coding.	
C205.4	Utilize multi-user radio communication.	

Sem : 3	Sub Code & Name :	CS8381 Data Structures Laboratory
CO No	Course Outcome	
C206.1	Able to write functions to implement linear and non-linear data structure operations.	
C206.2	Suggest appropriate type of linear / non-linear data structure operations for solving a given	
C206.3	Able to understand and compare the application of different data structures.	
C206.4	Appropriately use the linear / non-linear data structure operations for a given problem.	
C206.5	Apply appropriate hash functions that result in a collision free scenario for data storage and	

Sem : 3	Sub Code & Name :	CS8383 Object Oriented Programming Laboratory
CO No	Course Outcome	
C207.1	Build software development skills using java programming for real-world applications	
C207.2	Understand and apply the concepts of classes, packages, interfaces, arraylist, exception handling	
C207.3	Understand the exceptions and use I/O streams	
C207.4	Develop the java applications using threads.	
C207.5	Develop applications using generic programming and event handling.	

Sem : 3	Sub Code & Name :	CS8382 Digital System Laboratory
CO No	Course Outcome	
C208.1	Implement boolean simplification techniques to design a combinational hardware circuit.	
C208.2	Design and implement combinational and sequential circuits.	
C208.3	Analyse a given circuit-combinational and sequential.	
C208.4	Design the different functional units in a digital computer system.	
C208.5	Design and Implement a simple digital system.	

Sem : 3	Sub Code & Name :	HS8381 Interpersonal Skills/Listening&Speaking
CO No	Course Outcome	
C209.1	Listen and respond appropriately.	
C209.2	Participate in group discussions	
C209.3	Make effective presentations	
C209.4	Participate confidently and appropriately in conversations both formal and informal	

Sem : 4	Sub Code & Name :	MA8391 Probability and Queuing Theory
CO No	Course Outcome	
C210.1	Understand the fundamental knowledge of the concepts of probability and have knowledge of	
C210.2	Understand the basic concepts of one and two dimensional random variables and apply in	
C210.3	Apply the concept of random processes in engineering disciplines.	
C210.4	Acquire skills in analyzing queueing models.	
C210.5	Understand and characterize phenomenon which evolve with respect to time in a probabilistic	

Sem : 4	Sub Code & Name :	CS8491 Computer Architecture
CO No	Course Outcome	
C211.1	Understand the basics structure of computers, operations and instructions.	
C211.2	Design arithmetic and logic unit.	
C211.3	Understand pipelined execution and design control unit.	
C211.4	Understand parallel processing architectures.	
C211.5	Understand the various memory systems and I/O communication.	

Sem : 4	Sub Code & Name :	CS8492 Database Management Systems
CO No	Course Outcome	
C212.1	Classify the modern and futuristic database applications based on size and complexity	
C212.2	Map ER model to Relational model to perform database design effectively	
C212.3	Write queries using normalization criteria and optimize queries	
C212.4	Compare and contrast various indexing strategies in different database systems	
C212.5	Appraise how advanced databases differ from traditional databases.	

Sem : 4	Sub Code & Name :	CS8451 Design And Analysis of Algorithms
CO No	Course Outcome	
C213.1	Design algorithms for various computing problems.	
C213.2	Analyze the time and space complexity of algorithms.	
C213.3	Critically analyze the different algorithm design techniques for a given problem.	
C213.4	Modify existing algorithms to improve efficiency.	
C213.5	Apply efficient Algorithms to solve the problems handling standard data structures	

Sem : 4	Sub Code & Name :	CS8493 Operating Systems
CO No	Course Outcome	

C214.1	Analyze various scheduling algorithms & Understand deadlock, prevention and avoidance
C214.2	Compare and contrast various memory management schemes.
C214.3	Understand the functionality of file systems.
C214.4	Perform administrative tasks on Linux Servers.
C214.5	Compare iOS and Android Operating Systems.

Sem : 4	Sub Code & Name :	GE8291 Environmental Science and Engineering
CO No	Course Outcome	
C215.1	Understanding the Environment, Ecosystem, Biodiversity	
C215.2	Learn the preventive methods of environmental pollution	
C215.3	Acquaint with Natural resources and Energy resources	
C215.4	Know the social issues and Environment	
C215.5	Acquire knowledge of Human population and Environment	

Sem : 4	Sub Code & Name :	CS8481 Database Management Systems Laboratory
CO No	Course Outcome	
C216.1	Use typical data definitions and manipulation commands.	
C216.2	Design applications to test Nested and Join Queries	
C216.3	Implement simple applications that use Views	
C216.4	Implement applications that require a Front-end Tool	
C216.5	Critically analyze the use of Tables, Views, Functions and Procedures	

Sem : 4	Sub Code & Name :	CS8461-Operating Systems Laboratory
CO No	Course Outcome	
C217.1	Compare the performance of various CPU Scheduling Algorithms	
C217.2	Implement Deadlock avoidance and Detection Algorithms	
C217.3	Implement Semaphores	
C217.4	Create processes and implement IPC	
C217.5	Analyze the performance of the various Page Replacement Algorithms, Implement File	

Sem : 4	Sub Code & Name :	HS8461 Advanced Reading and Writing
CO No	Course Outcome	
C218.1	Write different types of essays.	
C218.2	Write winning job applications.	
C218.3	Read and evaluate texts critically.	
C218.4	Display critical thinking in various professional contexts.	

Sem : 5	Sub Code & Name :	MA8551 Algebra and Number Theory
CO No	Course Outcome	
301.1	Apply the basic notions of groups, rings, fields which will then be used to solve related problems.	
301.2	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and	
301.3	Demonstrate accurate and efficient use of advanced algebraic techniques.	
301.4	Demonstrate their mastery by solving non - trivial problems related to the concepts, and by	
301.5	Apply integrated approach to number theory and abstract algebra, and provide a firm basis for	

Sem : 5	Sub Code & Name :	CS8591 Computer Networks
CO No	Course Outcome	
302.1	Understand the basic layers and its functions in computer networks.	
302.2	Evaluate the performance of a network.	
302.3	Understand the basics of how data flows from one node to another.	
302.4	Analyze and design routing algorithms.	
302.5	Design protocols for various functions in the network.	

Sem : 5	Sub Code & Name :	EC8691 Microprocessors and Microcontrollers
CO No	Course Outcome	
303.1	Understand and execute programs based on 8086 microprocessor.	
303.2	Design Memory Interfacing circuits.	
303.3	Design and interface I/O circuits.	
303.4	Design and implement 8051 microcontroller based systems.	

Sem : 5	Sub Code & Name :	IT8501 WEB TECHNOLOGY
CO No	Course Outcome	
304.1	Design simple web pages using markup languages like HTML and XHTML	

304.2	Create dynamic web pages using DHTML and java script that is easy to navigate and use
304.3	Program server side web pages that have to process request from client side web pages
304.4	Represent web data using XML and develop web pages using JSP.
304.5	Understand various web services and how these web services interact

Sem : 5	Sub Code & Name :	CS8494 Software Engineering
CO No	Course Outcome	
305.1	Identify the key activities in managing a software project & Compare different process models.	
305.2	Concepts of requirements engineering and Analysis Modeling.	
305.3	Apply systematic procedure for software design and deployment.	
305.4	Compare and contrast the various testing and maintenance.	
305.5	Manage project schedule, estimate project cost and effort required.	

Sem : 5	Sub Code & Name :	OLT553 Telecommunication Network Management
CO No	Course Outcome	
306.1	Design and analyze of fault management..	
306.2	Analyze the common management information protocol specifications..	
306.3	Design and analyze of management information model.	
306.4	Design the simple network management protocol.	
306.5	Design the various types of network management tools.	

Sem : 5	Sub Code & Name :	EC8681 Microprocessors And Microcontrollers Laboratory
CO No	Course Outcome	
C307.1	Write ALP Programmes for fixed and Floating Point and Arithmetic operations	
C307.2	Interface different I/Os with processor	
C307.3	Generate waveforms using Microprocessors	
C307.4	Execute Programs in 8051	
C307.5	Explain the difference between simulator and Emulator	

Sem : 5	Sub Code & Name :	CS8581 Networks Laboratory
CO No	Course Outcome	
C308.1	Implement various protocols using TCP and UDP.	
C308.2	Compare the performance of different transport layer protocols.	
C308.3	Use simulation tools to analyze the performance of various network protocols.	
C308.4	Analyze various routing algorithms.	
C308.5	Implement error correction codes.	

Sem : 5	Sub Code & Name :	IT8511 Web Technology Laboratory
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CO No	Course Outcome
C309.1	Design simple web pages using markup languages like HTML and XHTML
C309.2	Create dynamic web pages using DHTML and java script that is easy to navigate and use.
C309.3	Program server side web pages that have to process request from client side web pages.
C309.4	Represent web data using XML and develop web pages using JSP.
C309.5	Understand various web services and how these web services interact.

Sem : 6	Sub Code & Name :	IT8601 Computational Intelligence
CO No	Course Outcome	
C310.1	Provide a basic exposition to the goals and methods of Computational Intelligence. Study of the	
C310.2	Apply the Intelligent techniques for problem solving	
C310.3	Improve problem solving skills using the acquired knowledge in the areas of, reasoning, natural	
C310.4	Language understanding, computer vision, automatic programming and machine learning.	

Sem : 6	Sub Code & Name :	CS8592 Object Oriented Analysis And Design
CO No	Course Outcome	
C311.1	Express software design with UML diagrams	
C311.2	Design software applications using OO concepts.	
C311.3	Identify various scenarios based on software requirements	
C311.4	Transform UML based software design into pattern based design using design patterns	
C311.5	Understand the various testing methodologies for OO software	

Sem : 6	Sub Code & Name :	IT8602 Mobile Communication
CO No	Course Outcome	
C312.1	Explain the basics of mobile telecommunication system	
C312.2	Illustrate the generations of telecommunication systems in wireless network	
C312.3	Determine the functionality of network layer and Identify a routing protocol for a given Ad hoc	
C312.4	networks Explain the functionality of Transport and Application layer	
C312.5	Explain the functionality of Transport and Application layer	

Sem : 6	Sub Code & Name :	CS8091 Big Data Analytics
CO No	Course Outcome	
C313.1	Work with big data tools and its analysis techniques	
C313.2	Analyze data by utilizing clustering and classification algorithms.	
C313.3	Learn and apply different mining algorithms and recommendation systems for large volumes of	
C313.4	Perform analytics on data streams	
C313.5	Learn NoSQL databases and management	

Sem : 6	Sub Code & Name :	CS8092 Computer Graphics and Multimedia
CO No	Course Outcome	
C314.1	Design two dimensional graphics	
C314.2	Design three dimensional graphics	
C314.3	Apply three dimensional transformations, Apply clipping techniques to graphics	
C314.4	Understood Different types of Multimedia File Format.	
C314.5	Design Basic 3d Scenes using Blender	

Sem : 6	Sub Code & Name :	IT8076 Software Testing
CO No	Course Outcome	

C315.1	Design test cases suitable for a software development for different domains.
C315.2	Prepare test planning based on the document.
C315.3	Document test plans and test cases designed.
C315.4	Use automatic testing tools
C315.5	Develop and validate a test plan..

Sem : 6	Sub Code & Name :	CS8662 Mobile Application Development Laboratory
CO No	Course Outcome	
C316.1	Develop mobile applications using GUI and Layouts.	
C316.2	Develop mobile applications using Event Listener.	
C316.3	Develop mobile applications using Databases.	
C316.4	Develop mobile applications using RSS Feed, Internal/External Storage, SMS, Multi- threading	
C316.5	Analyze and discover own mobile app for simple needs.	

Sem : 6	Sub Code & Name :	CS8582 Object Oriented Analysis And Design Laboratory
CO No	Course Outcome	
C317.1	Perform OO analysis and design for a given problem specification.	
C317.2	Identify and map basic software requirements in UML mapping.	
C317.3	Improve the software quality using design patterns and to explain the rationale behind applying	
C317.4	Test the compliance of the software with the SRS.	
C317.5	Perform OO analysis and design for a given problem specification.	

Sem : 6	Sub Code & Name :	IT8611 Mini Project
CO No	Course Outcome	
C318.1	Formulate a real world problem and develop its requirements	
C318.2	Develop a design solution for a set of requirements	
C318.3	Test and validate the conformance of the developed software against the original requirements of	
C318.4	Work effectively with peers to pursue a goal	
C318.5	Take up any challenging practical problems and find solution by formulating proper methodology	

Sem : 6	Sub Code & Name :	HS8581 Professional Communication
CO No	Course Outcome	
C319.1	Make effective presentations	
C319.2	Participate confidently in Group Discussions.	
C319.3	Attend job interviews and be successful in them.	
C319.4	Develop adequate Soft Skills required for the workplace	
C319.5	Make them Employable Graduates	

Sem : 7	Sub Code & Name :	MG8591 Principles of Management
CO No	Course Outcome	
C401.1	Enable the students to study the evolution of Management	
C401.2	Study the functions and principles of management.	
C401.3	Learn the application of the principles in an organization.	
C401.4	Enable the effective and barriers communication in the organization	
C401.5	Study the system and process of effective controlling in the organization.	

Sem : 7	Sub Code & Name :	CS8792 Cryptography And Network Security
CO No	Course Outcome	
C402.1	Understand the fundamentals of networks security, security architecture, threats and	

C402.2	Apply the different cryptographic operations of symmetric cryptographic algorithms
C402.3	Apply the different cryptographic operations of public key cryptography
C402.4	Apply the various Authentication schemes to simulate different applications.
C402.5	Understand various Security practices and System security standards

Sem : 7	Sub Code & Name :	CS8791 Cloud Computing
CO No	Course Outcome	
C403.1	Articulate the main concepts, key technologies, strengths and limitations of cloud computing.	
C403.2	Learn the key and enabling technologies that help in the development of cloud.	
C403.3	Develop the ability to understand and use the architecture of compute and storage cloud, service	
C403.4	Explain the core issues of cloud computing such as resource management and security.	
C403.5	Be able to install and use current cloud technologies.	

Sem : 7	Sub Code & Name :	OMF751- Lean Six Sigma
CO No	Course Outcome	
C404.1	The student would be able to relate the tools and techniques of lean sigma to increase	
C404.2	The scope of tools and techniques	
C404.3	Knowledge about six sigma methodologies.	
C404.4	Define the checkpoints, six sigma implementation and challenges	
C404.5	Know evaluation and continuous improvement methods	

Sem : 7	Sub Code & Name :	IT8075- Software Project Management
CO No	Course Outcome	
C405.1	Understand Project Management principles while developing software.	
C405.2	Gain extensive knowledge about the basic project management concepts, framework and the	
C405.3	Obtain adequate knowledge about software process models and software effort estimation	
C405.4	Define the checkpoints, project reporting structure, project progress and tracking mechanisms	
C405.5	Learn staff selection process and the issues related to people management	

Sem : 7	Sub Code & Name :	CS8079 - Human Computer Interaction
CO No	Course Outcome	
C406.1	Design effective dialog for HCI.	
C406.2	Design effective HCI for individuals and persons with disabilities.	
C406.3	Assess the importance of user feedback.	
C406.4	Explain the HCI implications for designing multimedia/ ecommerce/ e-learning Websites.	
C406.5	Develop meaningful user interface.	

Sem : 7	Sub Code & Name :	IT8711 FOSS Cloud Computing Laboratory
CO No	Course Outcome	
C407.1	Configure various virtualization tools such as Virtual Box, VMware workstation.	
C407.2	Design and deploy a web application in a PaaS environment.	
C407.3	Learn how to simulate a cloud environment to implement new schedulers.	
C407.4	Install and use a generic cloud environment that can be used as a private cloud.	
C407.5	Manipulate large data sets in a parallel environment.	

Sem : 7	Sub Code & Name :	IT8761 Security Laboratory
CO No	Course Outcome	
C408.1	Develop code for classical Encryption Techniques to solve the problems.	
C408.2	Build cryptosystems by applying symmetric and public key encryption algorithms.	
C408.3	Construct code for authentication algorithms.	
C408.4	Develop a signature scheme using Digital signature standard.	
C408.5	Demonstrate the network security system using open source tools	

Sem : 8	Sub Code & Name :	IT8004 Network Management
CO No	Course Outcome	
C409.1	Gather, derive, define and validate real requirements for the specified network.	
C409.2	Understand different types of requirements from the user, application, device and network	
C409.3	Develop traceability between requirements, architecture decisions, and design decisions	
C409.4	Implement how and where addressing and routing, security, network management, and	
C409.5	Use SNMPv1, v2 and v3 protocols.	

Sem : 8	Sub Code & Name :	IT8078 Web design and Management
CO No	Course Outcome	
C410.1	Learn the basic concepts in HTML, CSS, JavaScript	
C410.2	Understand the responsive design and development	
C410.3	Understand the responsive design and development	
C410.4	Design a Website with HTML, JS, CSS / CMS - Word press	
C410.5	Manage, Maintain and Support Web Apps	

Sem : 8	Sub Code & Name :	IT8811-Project Work
CO No	Course Outcome	
C411.1	Formulate a real world problem and develop its requirements	
C411.2	Develop a design solution for a set of requirements	
C411.3	Test and validate the conformance of the developed software against the original requirements of	
C411.4	Work effectively with peers to pursue a goal	
C411.5	Take up any challenging practical problems and find solution by formulating proper methodology	

2019-2023 Batch

Sem : 6	Sub Code & Name :	IT8001 Information Storage and Management
CO No	Course Outcome	
C315.1	Understand the logical and physical components of a Storage infrastructure.	
C315.2	Evaluate storage architectures, including storage subsystems, DAS, SAN, NAS, and CAS	
C315.3	Understand the various forms and types of Storage Virtualization.	
C315.4	Describe the different role in providing disaster recovery and business continuity capabilities	
C315.5	Distinguish different remote replication technologies.	

Sem : 8	Sub Code & Name :	CS8080 Information Retrieval Techniques
CO No	Course Outcome	
C410.1	Understand the strengths and limitations of Information retrieval.	
C410.2	Use an open source search engine framework and explore its capabilities	
C410.3	Apply appropriate method of classification or clustering.	
C410.4	Design and implement innovative features in a search engine.	
C410.5	Design and implement a recommender system.	

Sem : 7	Sub Code & Name :	OME752 – SUPPLY CHAIN MANAGEMENT
CO No	Course Outcome	
C404.1	Summarize the role of logistics in supply chain management	
C404.2	Explain the concept of supply chain network design	
C404.3	Interpret the logistics in supply chain management	
C404.4	Explain the concept of sourcing and coordination in supply chain management	

C404.5	Summarize the role of information technology in supply chain management
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2017-2021 Batch

Sem : 6	Sub Code & Name :	IT8001 Information Storage and Management
CO No	Course Outcome	
C315.1	Understand the logical and physical components of a Storage infrastructure.	
C315.2	Evaluate storage architectures, including storage subsystems, DAS, SAN, NAS, and CAS	
C315.3	Understand the various forms and types of Storage Virtualization.	
C315.4	Describe the different role in providing disaster recovery and business continuity capabilities	
C315.5	Distinguish different remote replication technologies.	

Sem : 7	Sub Code & Name :	IT8074 SERVICE ORIENTED ARCHITECTURE
CO No	Course Outcome	
C405.1	Understand the logical and physical components of a Storage infrastructure.	
C405.2	provide an overview of Service Oriented Architecture	
C405.3	Web services and their importance	
C405.4	learn web services standards and technologies	
C405.5	The student would be able to apply the tools and techniques of quality management to	

Sem : 8	Sub Code & Name :	GE8076 PROFESSIONAL ETHICS IN ENGINEERING
CO No	Course Outcome	
C410.1	Acquire knowledge to adopt green computing practices to minimize negative impacts on the	
C410.2	Enhance the skill in energy saving practices in their use of hardware.	
C410.3	Evaluate technology tools that can reduce paper waste and carbon footprint by the stakeholders.	
C410.4	Describe the different role in providing disaster recovery and business continuity capabilities	
C410.5	Understand the ways to minimize equipment disposal requirements	