M.I.E.T. ENGINEERING COLLEGE
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
TRICHY – PUDUKKOTTAI ROAD, TIRUCHIRAPPALLI – 620 007.
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COMPUTER SCIENCE AND ENGINEERING

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Regulation – 2017 – UG

Regulation -2017 U.G	
YEAR / SEMESTER : II/III	
C301-MA8351/DISCRETE MATHEMATICS	
C301.1	Reformulating and applying statements from common language to formal logic
C301.2	Identify the structures at various levels in combinatorial
C301.3	Compare various groups and its algorithms in computer programming
C301.4	Demonstrate the concept of groups & subgroups
C301.5	Exposed the concepts and properties of lattices and Boolean algebra in mathematical manner
C302-CS8351/DIGITAL PRINCIPLES AND SYSTEM DESIGN	
C302.1	Simplify Boolean functions using K map and tabulation method.
C302.2	Design and Analyze Combinational Circuits
C302.3	Design and Analyze Sequential Circuits
C302.4	Implement designs using Programmable Logic Devices
C302.5	Interpret HDL code for combinational and Sequential Circuits
C303-CS8391/DATA STRUCTURES	
C303.1	Implement the operations of List ADT for problem solving.
C303.2	Apply the different linear data structures (Stack and Queue) to problem solutions.
C303.3	Implement the tree data structures for solving the given problems.
C303.4	Apply the graph data structures to solve the given problems.
C303.5	Implement various sorting and searching algorithms.
C303.6	Apply hashing Techniques to solve the collision problems.
C304-CS8392/OBJECT ORIENTED PROGRAMMING	
C304.1	Classify the difference between object oriented programming and procedural oriented language.

C304.2	Identify the members of a class and its relationship for a particular problem.
C304.3	Demonstrate the concepts of polymorphism and inheritance
C304.4	Identify how to overcome the disrupts of normal flow with the sequence of data.
C304.5	Illustrate the importance of concurrency and able to apply the classes and interfaces as parameter.
C304.6	Analyze platform independent application runtime environment and choose appropriate run time environment to create GUI and web application using java.
C305-EC8395/COMMUNICATION ENGINEERING	
C305.1	Illustrate analog communication techniques
C305.2	Explain digital communication techniques
C305.3	Illustrate data and pulse communication techniques
C305.4	Make use of various error control coding techniques to identify/correct errors
C305.5	Outline multi-user radio communication
C305.6	Illustrate different types of noise and its calculation.
C306-CS8381/DATA STRUCTURES LABORATORY	
C306.1	Develop programs to implement linear Data Structures operations
C306.2	Design programs to apply list, stack &queue operations
C306.3	Build programs to implement non linear Data Structures operations
C306.4	Apply non linear Data Structures for solving problems.
C306.5	Develop programs to implement sorting & searching algorit3ms.
C306.6	Design programs to implement various collision resolution techniques in hashing.
C307- CS8383/ OBJECT ORIENTED PROGRAMMING LABORATORY	
C307.1	Classify the difference between object oriented programming and procedural oriented language.
C307.2	Identify the members of a class and its relationship for a particular problem.
C307.3	Demonstrate the concepts of polymorphism and inheritance

C307.4	Identify how to overcome the disrupts of normal flow with the sequence of data.
C307.5	Summarize the importance of concurrency and able to apply the classes and interfaces as parameter.
C307.6	Analyze platform independent application runtime environment and choose appropriate run time environment to create GUI and web application using java.
C308-CS8382/DIGITAL SYSTEMS LABORATORY	
C308.1	Construct Sequential logic circuits to perform Count & Shift
C308.2	Build combinational logic circuits to perform arithmetic operations.
C308.3	Construct Sequential logic circuits to perform Count
C308.4	Implement sequential circuits like registers and counters.
C308.5	Construct Sequential logic circuits to perform Shift Operations
C309-HS8381/INTERPERSONAL SKILLS/LISTENING & SPEAKING	
C309.1	Adeptly use the spoken word in interpersonal communication, small group interactions and public speaking.
C309.2	Use the written word for informational, persuasive and creative poses.
C309.3	Use language in ways appropriate of the communicative contexts they find themselves in both during and after the education.
C309.4	Analyze communication context in terms of varieties of language.
C309.5	Develop a global awareness of political, social and corporate issues influenced by communication sensitivity and skills.
YEAR / SEMESTER : II/IV	
C401-MA8402/PROBABILITY AND QUEUEING THEORY	
C401.1	Analyze the fundamental knowledge of the concept of probability in real life phenomenon

C401.2	Apply the concept of two dimensional random variable in engineering discipline
C401.3	Make use of Stochastic process to solve real life application
C401.4	Analyze the queuing models
C401.5	Identify solutions for probabilistic models
C402- CS8491/COMPUTER ARC3ITECTURE	
C304.1	Identify the hardware blocks, instructions set & addressing mode
C304.2	Solving the architecture related problems using arithmetic operations
C304.3	Use various matrix to calculate the performance of a computer system
C304.4	Detect pipeline hazards and identify possible solutions to those hazards.
C304.5	Overcome the challenges of parallelism and its classifications.
C304.6	Demonstrate the basic concepts of memory and I/O Systems
C403- CS8492/DATABASE MANAGEMENT SYSTEMS	
C403.1	Illustrate the database design for applications.
C403.2	Make use of ER diagram and normalization techniques in database application
C403.3	Apply concurrency control & recovery mechanism for database problems.
C403.4	Apply the various concepts in query processing.
C403.5	Compare various storage techniques in database.
C403.6	Apply security concepts to databases
C404- CS8451/DESIGN ANALYSIS OF ALGORITHMS	
C404.1	Interpret the fundamental needs of algorithms in problem solving.
C404.2	Classify the different algorithm design techniques for problem solving.
C404.3	Develop algorithms for various computing problems.
C404.4	Analyze the time and space complexity of various algorit3ms.
C404.5	Identify the limitations of algorithms in problem solving.
C404.6	To identify the types of problem, formulate, analyze and compare the efficiency of algorithms.

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C405- CS8493/OPERATING SYSTEMS	
C405.1	Summarize the basic concepts and functions of Operating Systems
C405.2	Outline various threading models, process synchronization and deadlocks
C405.3	Compare the performance of various CPU scheduling algorithms
C405.4	Outline the basic concept of various memory management schemes
C405.5	Expound I/O management and file systems
C405.6	Identified the model Linux multifunction server and utilize local network services
C406- CS8494/SOFTWARE ENGINEERING	
C406.1	Explain the software engineering process and project management
C406.2	Demonstrate software requirements and analysis
C406.3	Outline the software design process and user interface
C406.4	Compare and contrast various software testing
C406.5	Discuss about the software integration and project management
C407-CS8481/DATABASE MANAGEMENT SYSTEMS LABORATORY	
C407.1	Infer database language commands to create simple database
C407.2	Analyze the database using queries to retrieve records
C407.3	Applying PL/SQL for processing database
C407.4	Analyze front end tools to design forms, reports and menus
C407.5	Develop solutions using database concepts for real time requirements.
C407.6	Develop database modeling for a problem.
C408-CS8461/OPERATING SYSTEMS LABORATORY	
C408.1	Illustrate about the Unix command, shell programming and to compare the performance of various cpu scheduling algorithm.
C408.2	Implement dead lock avoidance, detection algorit3m.
C408.3	Implement semaphore.

C408.4	Create process and implement IPC.
C408.5	Analyze the performance of the various page replacement Algorithms
C408.6	Implement file organization and file allocation strategies
C409-3S8461/ADVANCED READING AND WRITING	
C409.1	Take international examination such as IELTS and TOEFL
C409.2	Participate in Group Discussion
C409.3	Successfully answer questions in Interviews.
C409.4	Make effective Presentations.
C409.5	Participate confidently and appropriately in conversations both formal and informal
YEAR / SEMESTER : III/V	
C501-MA8551/ALGEBRA AND NUMBER THEORY	
C501.1	Reformulate statements from common language to formal logic and apply the method of proofs to propositional and predicate calculus.
C501.2	Identify the structures on various levels in combinatorial analysis and generating functions
C501.3	Discuss various graph and its algorithms in computer programming.
C501.4	Demonstrate the examples of subgroups and normal subgroup and use the concepts of isomorphism and homomorphism for groups, rings.
C501.5	Exposed the concepts and properties of lattices and Boolean algebra in mathematical manner.
C502-CS8591/COMPUTER NETWORKS	
C502.1	Understand the basic layers and its function in computer networks.
C502.2	Evaluate the performance of a network.
C502.3	Evaluate the basis of how data flows one node to another
C502.4	Analyze and design routing algorithms
C502.5	Design protocols for various functions in the network

C502.6	Understand the working of various application layer protocols.
C503-EC8691/MICROPROCESSORS AND MICROCONTROLLERS	
C503.1	Design & implement program on 8086 microprocessor.
C503.2	Design and interface I/O circuits.
C503.3	Design Memory Interfacing circuit
C503.4	Design and implement 8051 microcontroller based systems.
C503.5	Understand the Bus Structure and advanced processor
C504-CS8501/THEORY OF COMPUTATION	
C504.1	Design automata and prove a statement
C504.2	Construct regular expression for a pattern
C504.3	Correlate different types of automata to real world applications
C504.4	Design a turning machine to solve problem on mathematical foundations
C504.5	Decide whether a problems is decidable or not
C504.6	Identify different computational complexities
C505-CS8592/OBJECT ORIENTED ANALYSIS AND DESIGN	
C505.1	Understand the difference between object oriented programming and procedural oriented language
C505.2	Identify members of a class and its relationships for a particular problem
C505.3	Demonstrate the concepts of polymorphism and inheritance
C505.4	Identify how to overcome the disrupts of normal flow with the sequence of data
C505.5	Understand the importance of concurrency and able to apply the classes and interfaces as parameters
C505.6	Analyze platform independent application runtime environment and choose appropriate runtime environment to create GUI and Web applications using Java language.
C506-OCE552/GEOGRAPHICAL INFORMATION SYSTEMS	

C506.1	Analyze the basic components of GIS.
C506.2	Classify the data models, coordinate systems and data quality.
C506.3	Process spatial and attribute data inputs and prepare the data linking and mapping.
C506.4	Identify the data analysis tools and rectify mapping inaccuracies.
C506.5	Formulate and solve geospatial problems.
C507-EC8681/MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	
C507.1	Design & implement program on 8086 microprocessor.
C507.2	Design and interface I/O circuits.
C507.3	Design Memory Interfacing circuit
C507.4	Design and implement 8051 microcontroller based systems.
C507.5	Understand the Bus Structure and advanced processor
C508-CS8582/OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY	
C508.1	Analyze, design, document the requirements through use case driven approach
C508.2	Identity, analyze and model structural and behavioral concepts of the system
C508.3	Develop explore the conceptual model into various scenarios and applications
C508.4	Apply the concepts of architectural design for deploying the code for software.
C509-CS8581/NETWORKS LABORATORY	
C509.1	Implement various protocol using TCP and UDP
C509.2	Compare the performance of different transport layer protocols
C509.3	Use simulation tools to analyze the performance of various network protocols
C509.4	Analyze various routing algorithms
C509.5	Implement error correction codes
YEAR / SEMESTER : III/VI	
C601-CS8651/INTERNET PROGRAMMING	
C601.1	Implement various protocol using TCP and UDP
C601.2	Compare the performance of different transport layer protocols

C601.3	Use simulation tools to analyze the performance of various network protocols
C601.4	Analyze various routing algorithms
C601.5	Implement error correction codes
C602-CS8691/ ARTIFICIAL INTELLIGENCE	
C602.1	Identify problems that are able to solution by AI methods.
C602.2	Recognize appropriate AI methods to solve a given problem.
C602.3	Able to interpret the problem in the given logic.
C602.4	Implement basic AI algorithms.
C602.5	Assess critically the techniques presented and apply them to real world problems
C603-CS8601/MOBILE COMPUTING	
C603.1	Comprehend the basics of Mobile Computing
C603.2	Express the functionality of Mobile IP and Transport Layer
C603.3	Classify different types of mobile telecommunication systems
C603.4	Implement Adhoc networks with routing protocols
C603.5	Use mobile operating systems in developing mobile applications
C603.6	Synthesize new knowledge in the area of mobile computing by using appropriate techniques.
C604-CS8602/COMPILER DESIGN	
C604.1	Design and implement a prototype compiler to correct code.
C604.2	Diagnose the data flow anomalies.
C604.3	Work with debugger.
C604.4	Relate parallel processing and architecture interface at runtime by customizing compilation process to application.
C604.5	Apply the various code optimization techniques.
C604.6	Utilize the different compiler construction tools for optimization of machine language.

C605-CS8603/DISTRIBUTED SYSTEMS	
C605.1	Know the issues of designing Distributed systems and understand the fundamentals of Distributed systems
C605.2	Make use of Message ordering paradigms and snapshot recording algorithm
C605.3	Apply the Distributed Mutual Exclusion algorithm and to detect deadlock in Distributed systems
C605.4	Apply Check Pointing algorithm for recovering from failure
C605.5	Use Agreement in failure in Distributed systems
C605.6	Implement Peer to Peer computing & Distributed shared memory
C606-IT8076/SOFTWARE TESTING	
C606.1	Formulate problem by following Software Testing Life Cycle
C606.2	Design Manual Test cases for Software Project.
C606.3	Identify the realistic problem for different category of software
C606.4	Use automation testing tool students will be able test the software.
C606.5	Follow the process related activity and testing techniques to work as team member
C606.6	Use practical knowledge of a variety of ways to test software and an understanding of some of the tradeoffs between testing techniques
C607-CS8661/INTERNET PROGRAMMING LABORATORY	
C607.1	Understand, analyze and apply the role of languages like HTML, XML, and JavaScript.
C607.2	analyze a web page and identify its elements and attributes
C607.3	Develop java program based on protocols like HTTP, SMTP, POP3 and FTP.
C607.4	Create dynamic web pages using Servlet and JSP.
C607.5	Obtain the knowledge on data manipulation in a web.
C608-CS8662/MOBILE APPLICATION DEVELOPMENT LABORATORY	
C608.1	Build a native application using GUI components and Mobile application

	development frame work
C608.2	Develop an application using basic graphical primitives and databases
C608.3	Construct an application using multi threading and RSS feed
C608.4	Make use of location identification using GPS in an application
C608.5	Design and Implement various mobile applications using emulators.
C609-CS8611/MINI PROJECT	
C609.1	Choose problems with technical importance and societal contribution
C609.2	Identify and survey the relevant literature for getting exposed to related solutions
C609.3	Build project plans with feasible requirements
C609.4	Analyze, design and develop adaptable and reusable solutions
C609.5	Implement and test solutions to trace against the user requirements
C609.6	Deploy the solutions for better manageability and provide scope for improvability
C610-HS8581/PROFESSIONAL COMMUNICATION	
C610.1	Apply appropriate communication skills across settings, purposes and audiences.
C610.2	Demonstrate knowledge of communication theory and applications.
C610.3	Practice critical thinking to develop innovative and well-founded perspectives related to the students emp3asis. Build and maintain healthy and effective relationships.
C610.4	Use technology to communicate effectively in various settings and contexts.
C610.5	Demonstrate appropriate and professional ethical behavior.
YEAR / SEMESTER : IV/VII	
C701-MG8591/PRINCIPLES OF MANAGENENT	
C701.1	Evaluate the global context for taking managerial actions of planning, organizing and controlling.
C701.2	Assess global situation, including opportunities and threats that will impact management of an organization.

C701.3	Integrate management principles into management practices.
C701.4	Assess managerial practices and choices relative to ethical principles and standards.
C701.5	Specify how the managerial tasks of planning, organizing, and controlling can be executed in a variety of circumstances.
C702-CS8792/CRYPTOGRAPHY AND NETWORK SECURITY	
C702.1	To explain the basics of number theory and compare the encryption techniques
C702.2	To Summarize the functionality of public key cryptography
C702.3	To apply the message authentication functions and secure algorithms for secure transactions
C702.4	To demonstrate and apply the security systems
C702.5	To discuss the different levels of security and services
C702.6	To transact and keep the information in a secured manner
C703-CS8791/CLOUD COMPUTING	
C703.1	Understand the concept of distributed computing.
C703.2	Apply grid computing techniques.
C703.3	Understand the concept of virtualization.
C703.4	Use grid and cloud tool kits to develop the applications.
C703.5	Apply the security models in the grid and cloud environment
C703.6	Design and develop a private cloud environment with security enhanced.
C704- OBM772/HOSPITAL MANAGEMENT	
C704.1	Explain the principles of hospital administration.
C704.2	Identify the importance of human resource management
C704.3	List various marketing research techniques.
C704.4	Identify Information management systems and its uses.
C704.5	Understand safety procedures followed in hospitals

C705- IT8074/SERVICE ORIENTED ARCHITECTURE	
C705.1	Infer the XML Schema, Name Space and Document Structure.
C705.2	Build Applications based on XML.
C705.3	Outline the SOA ethics and Service levels.
C705.4	Develop web service using technology elements.
C705.5	Build SOA based applications for intra and inter-enterprise applications.
C705.6	Elucidate the security issues in XML.
C706- CS8079/HUMAN COMPUTER INTERACTION	
C706.1	Competent to design effective dialog for HCI
C706.2	Apply an interactive design process and universal design principles in designing HCI systems
C706.3	Able to discuss HCI issues in groupware, ubiquitous computing, virtual reality, multimedia, and Word Wide Web-related environments
C706.4	Design mock ups and carry out user and expert evaluation of interfaces
C706.5	Develop meaningful user interface
C706.6	how cognition and perception, which encompass attention, memory, thought, the“senses” play a role in affecting the experience of interactive design
C707-CS8711/CLOUD COMPUTING LABORATORY	
C707.1	Make use of the grid toolkit.
C707.2	Design and implement new grid applications on the grid.
C707.3	Make use of the cloud toolkit.
C707.4	Build cloud applications on cloud.
C707.5	Construct the applications according to the services.
C707.6	Develop a grid and cloud portal
C708-IT8761/SECURITY LABORATORY	
C708.1	To apply the cryptographic algorithm for the secured data communication.

C708.2	Apply the knowledge of symmetric cryptography to implement simple ciphers
C708.3	Analyze and implement public key algorithms like RSA
C708.4	To utilize the open source tools for analyzing the network and to provide the security for the date.
C708.5	Apply and set up firewalls and intrusion detection systems using open source technologies and to explore email security.
YEAR / SEMESTER : IV/VIII	
C801-CS8074/CYBER FORENSICS	
C801.1	Identify the process in taking digital evidence.
C801.2	Describe how to conduct an investigation using methods of memory, network and email forensics.
C801.3	Analyze various data acquisition tools for collecting digital evidence.
C801.4	outline a range of situations where digital forensics may be applicable
C801.5	Identify issues in the practice of digital forensic investigations.
C801.6	Identify and apply various computer forensics tools to solve the computer forensic cases.
C802-CS8078/GREEN COMPUTING	
C802.1	Acquire knowledge to adopt green computing practices to minimize negative impacts on the environment.
C802.2	Enhance the skill in energy saving practices in their use of hardware.
C802.3	Evaluate technology tools that can reduce paper waste and carbon footprint by the stakeholders.
C802.4	Understand the ways to minimize equipment disposal requirements.
C802.5	Identify and apply various Computing tools to solve the Environment cases.
C803-CS8811/PROJECT WORK	
C803.1	Identify and finalize problem statement by surveying variety of domains

C803.2	Perform requirement analysis and identify design methodologies
C803.3	Apply advanced programming techniques
C803.4	Present technical report by applying different visualization tools and Evaluation metrics

C301-MA8351/DISCRETE MATHEMATICS														
C301.1	3	3	2	2	-	-	-	-	-	-	-	2	-	2
C301.2	3	3	2	2	2	-	-	-	-	-	-	2	2	2
C301.3	3	2	2	3	3	-	-	-	-	-	-	2	3	3
C301.4	2	2	2	-	-	-	-	-	-	-	-	-	-	2
C301.5	3	3	2	-	2	-	-	-	-	-	-	2	2	2
C302-CS8351/DIGITAL PRINCIPLES AND SYSTEM DESIGN														
C302.1	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C302.2	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C302.3	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C302.4	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C302.5	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C302.6	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C303-CS8391/DATA STRUCTURES														
C303.1	3	3	1	1	2	-	-	-	-	-	-	1	3	1
C303.2	3	3	2	2	2	-	-	-	-	-	-	1	3	2
C303.3	3	3	2	2	2	-	-	-	-	-	-	1	3	2
C303.4	3	1	-	-	-	-	-	-	-	-	-	-	3	1
C303.5	3	3	2	2	2	-	-	-	-	-	-	1	3	2
C304-CS8392/OBJECT ORIENTED PROGRAMMING														

C304.1	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C304.2	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C304.3	3	3	-	2	2	-	-	-	-	-	-	3	3	2
C304.4	3	3	-	2	2	-	-	-	-	-	-	-	3	-
C304.5	3	3	2	2	2	-	-	-	-	-	-	3	3	2
C304.6	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C305-EC8395/COMMUNICATION ENGINEERING														
C305.1	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C305.2	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C305.3	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C305.4	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C305.5	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C305.6	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C306-CS8381/DATA STRUCTURES LABORATORY														
C306.1	3	2	2	-	-	-	-	-	-	-	-	-	3	-
C306.2	3	2	3	-	-	-	-	-	-	-	-	-	3	-
C306.3	3	3	3	-	-	-	-	-	-	-	-	-	3	2
C306.4	3	2	2	-	-	-	-	-	-	-	-	-	3	2
C306.5	3	3	3	-	-	-	-	-	-	-	-	-	3	2
C306.6	3	2	2	-	-	-	-	-	-	-	-	-	3	2
C307- CS8383/OBJECT ORIENTED PROGRAMMING LABORATORY														
C307.1	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C307.2	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C307.3	3	3	-	2	2	-	-	-	-	-	-	3	3	2

C307.4	3	3	-	2	2	-	-	-	-	-	-	-	3	-
C307.5	3	3	2	2	2	-	-	-	-	-	-	3	3	2
C307.6	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C308- CS8382/ DIGITAL SYSTEMS LABORATORY														
C308.1	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C308.2	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C308.3	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C308.4	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C309-3S8381/INTERPERSONAL SKILLS/LISTENING & SPEAKING														
C309.1	3	3	-	2	2	-	-	-	-	-	-	2	-	2
C309.2	3	2	-	2	2	-	-	-	-	-	-	2	-	-
C309.3	3	3	-	3	2	-	-	-	-	-	-	2	-	-
C309.4	3	2	2	-	-	-	-	-	-	-	-	2	-	-
C309.5	3	2	2	-	-		-	-	-	-	-	2	-	-
C401-MA8402/ PROBABILITY AND QUEUEING T3EORY														
C401.1	2	3	2	2	1	-	-	-	-	-	-	-	2	1
C401.2	3	2	2	-	-	-	-	-	-	-	-	-	-	1
C401.3	3	3	-	-	-	-	-	-	-	-	-	-	2	3
C401.4	3	3	2	-	-	-	-	-	-	-	-	-	2	2
C401.5	-	-	3	3	-	-	-	-	-	-	-	-	3	-
C402-CS8491/ COMPUTER ARC3ITECTURE														
C402.1	3	2	2	-	-	-	-	-	-	-	-	-	-	-
C402.2	3	2	2	-	-	-	-	-	-	-	-	-	3	-
C402.3	3	3	2	2	-	-	-	-	-	-	-	-	-	2
C402.4	3	2	2	2	-	-	-	-	-	-	-	-	3	3

C402.5	3	3	2	2	-	-	-	-	-	-	-	-	3	3
C402.6	3	3	2	-	-	-	-	-	-	-	-	-	3	3
C403-CS8492/ DATABASE MANAGEMENT SYSTEMS														
C403.1	3	3	-	-	-	-	-	-	-	-	-	-	3	3
C403.2	3	3	-	2	-	2	-	-	-	-	-	-	3	2
C403.3	3	3	-	-	-	2	-	-	-	-	-	-	3	2
C403.4	3	3	-	-	-	-	-	-	-	-	-	-	3	1
C403.5	3	3	-	2	-	2	2	-	-	-	-	-	3	2
C403.6	3	3	-	2	-	2	2	-	-	-	-	-	3	2
C404-CS8451/ DESIGN AND ANALYSIS OF ALGORIT3MS														
C404.1	3	2	-	-	-	-	-	-	-	3	-	-	3	-
C404.2	3	2	-	2	-	-	-	-	-	-	-	2	3	2
C404.3	3	2	2	2	-	2	2	-	-	-	-	-	3	3
C404.4	3	2	2	2	-	2	2	-	-	-	-	-	3	2
C404.5	3	2	-	2	-	-	-	-	-	-	-	-	3	3
C404.6	2	2	-	2	-	-	-	-	-	-	-	-	3	-
C405-CS8493/OPERATING SYSTEMS														
C405.1	3	2	-	-	-	-	-	-	-	-	-	3	-	3
C405.2	3	3	-	-	-	-	-	-	-	-	-	-	3	2
C405.3	2	3	2	2	-	-	-	2	-	-	-	3	3	3
C405.4	2	2	2	2	-	-	-	-	-	-	-	3	3	3
C405.5	2	3	2	2	-	-	2	-	-	-	-	-	3	2
C405.6	2	2	2	2	-	-	-	-	-	-	-	2	2	2
C406-CS8494/ SOFTWARE ENGINEERING														
C406.1	3	3	-	-	-	-	-	-	-	-	-	2	3	2

C406.2	3	3	2	-	-	2	3	2	-	-	-	-	3	2
C406.3	3	3	2	2	-	2	3	2	-	-	2	-	3	2
C406.4	3	3	3	3	-	-	3	3	3	3	2	2	3	3
C406.5	3	3	3	3	2	2	3	3	3	3	3	3	3	3
C406.6	3	3	2	1	-	2	3	2	-	-	2	2	3	2
C407-CS8481/ DATABASE MANAGEMENT SYSTEMS LABORATORY														
C407.1	3	3	-	-	2	-	-	-	-	-	-	-	3	2
C407.2	3	3	-	2	2	2	-	-	-	-	-	-	3	2
C407.3	3	3	-	2	2	2	-	2	-	-	-	-	3	2
C407.4	3	3	2	2	2	2	-	-	-	-	-	-	3	2
C407.5	3	3	2	2	2	2	-	-	-	-	-	-	3	2
C407.6	3	3	2	2	2	2	-	2	-	-	-	-	3	2
C408-CS8461/ OPERATING SYSTEMS LABORATORY														
C408.1	3	3	2	-	-	-	-	-	-	-	-	-	3	-
C408.2	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C408.3	3	3	3	3	-	-	-	-	-	-	-	-	3	3
C408.4	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C408.5	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C409-3S8461/ ADVANCED READING AND WRITING LABORATORY														
C409.1	3	2	3	-	-	-	-	-	3	2	2	2	-	-
C409.2	3	2	2	-	-	-	-	-	3	2	2	3	-	-
C409.3	3	3	2	-	-	-	-	-	3	2	2	3	-	-
C409.4	3	2	2	-	-	-	-	-	3	2	2	2	-	-
C409.5	3	3	2	-	-	-	-	-	3	2	2	3	-	-
C501-MA8551/ ALGEBRA AND NUMBER THEORY														

C501.1	3	3	-	2	-	-	-	2	-	3	-	-	2	2
C501.2	2	2	2	-	-	-	-	2	-	3	-	-	2	-
C501.3	2	2	-	2	-	-	-	2	-	3	-	-	2	-
C501.4	2	2	-	2	-	-	-	2	-	3	-	-	-	-
C501.5	3	2	2	2	-	-	-	2	-	-	-	-	-	2
C502-CS8591/COMPUTER NETWORKS														
C502.1	3	3	3	-	-	-	-	-	-	-	-	-	2	2
C502.2	3	3	3	-	-	-	-	-	-	-	-	-	2	2
C502.3	3	3	3	-	-	-	-	-	-	-	-	-	2	3
C502.4	3	3	3	2	-	-	-	-	-		-	-	3	3
C502.5	3	3	3	2	-		-	-	-	-	-	-	3	3
C502.6	3	3	3	2	-		-	-	-	-	-	-	3	2
C503-EC8691/MICROPROCESSORS AND MICROCONTROLLERS														
C503.1	3	2	-	-	-	-	-	-	-	-	-	-	3	2
C503.2	3	3	3	2	-	-	-	-	-	-	-	-	3	3
C503.3	3	3	3	2	-	-	-	-	-	-	-		3	3
C503.4	3	3	3	2	-	-	-	-	-	-	-		3	3
C503.5	2	2	3	-	-	-	-	-	-	-	-	-	3	2
C503.6	3	3	3	3	3	3	-	-	-	-	3	3	3	3
C504-CS8501/ THEORY OF COMPUTATION														
C504.1	3	3	3	2	-	-	-	-	-	-	-	2	3	2
C504.2	3	3	3	2	-	-	-	-	-	-	-	2	3	2
C504.3	2	3	-	2	-	-	-	-	-	-	-	2	2	2
C504.4	3	3	3	3	-	2	2	-	-	-	-	2	3	2
C504.5	3	3	-	3	-	2	-	-	-	-	-	2	3	3

C504.6	3	3	2	3	-	2	-	-	-	-	-	2	3	2
C505-CS8592/ OBJECT ORIENTED ANALYSIS AND DESIGN														
C505.1	3	3	3	3	3	-	-	-	-	-	-	-	3	3
C505.2	3	-	-	2	-	2	2	-	-	3	2	2	-	2
C505.3	3	3	3	2	-	-	-	-	-	-	-	-	3	-
C505.4	3	3	2	-	-	2	-	-	-	-	-	-	3	3
C505.5	2	-	3	2	-	3	-	-	-	-	-	-	3	2
C506- OCE552/GEOGRAPHICAL INFORMATION SYSTEMS														
C506.1	-	-	3	-	2	-	-	-	-	-	-	-	2	2
C506.2	3	2	2	-	1	-	-	-	-	-	-	-	2	2
C506.3	3	2	2	-	1	2	-	-	-	-	-	-	3	3
C506.4	2	2	1	-	-	1	-	-	-	-	-	-	2	2
C506.5	3	2	2	2	-	-	-	-	-	-	-	-	2	2
C506.6	3	2	2	2	-	-	-	-	-	-	-	-	2	2
C507-EC8681/ MICROPROCESSOR AND MICROCONTROLLER LABORATORY														
C507.1	3	2	2	2	2	-	-	2	2	2	-	-	2	2
C507.2	3	2	2	2	-	-	-	2	2	2	-	-	2	2
C507.3	3	2	2	2	-	-	-	2	2	2	-	-	2	2
C507.4	3	2	2	2	-	-	-	2	2	2	-	-	2	2
C507.5	3	2	2	2	2	2	-	2	2	2	2	-	2	2
C508-CS8582/ OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY														
C508.1	3	3	2	2	2	-	-	2	2	2	-	-	3	2
C508.2	3	2	2	2	-	-	-	-	2	2	-	-	3	2
C508.3	3	2	3	-	-	-	-	-	-	-	-	-	3	2
C508.4	3	2	2	-	-	-	-	-	-	-	-	-	3	2

C508.5	3	2	2	-	-	-	-	-	-	-	-	-	-	-
C509-CS8581/NETWORKS LABORATORY														
C509.1	3	2	2	-	-	-	-	-	-	-	-	3	2	2
C509.2	3	2	2	-	-	-	-	-	-	-	-	3	2	2
C509.3	3	3	2	-	-	-	-	-	-	-	-	-	-	2
C509.4	3	3	2	-	-	-	-	-	-		-	-	-	2
C509.5	3	3	3	-	-	-	-	-	-	-	-	-	-	2
C509.6	3	3	3	-	-	-	-	-	-	-	-	3	2	2
C601-CS8651/ INTERNET PROGRAMMING														
C601.1	3	2	3	-	-	2	-	-	2	-	3	3	2	2
C601.2	3	2	3	-	-	-	-	-	-	-	-	3	-	-
C601.3	3	2	3	3	-	-	-	-	2	-	-	-	2	2
C601.4	3	2	3	3	-	-	-	-	2	-	-	-	2	2
C601.5	3	3	3	3	-	-	-	-	2		3	2	2	2
C601.6	3	3	3	-	-	2	-	-	2		3	3	3	3
C602-CS8691/ ARTIFICIAL INTELLIGENCE														
C602.1	3	3	3	2	-	2	-	-	-	-	-	3	-	2
C602.2	3	3	3	2	-	-	2	-	-	-	-	3	2	2
C602.3	3	3	3	2	-	2	-	-	-	-	-	2	3	2
C602.4	3	3	3	-	-	-	-	-	-		-	-	3	-
C602.5	3	3	3	2	-	-	-	2	-	-	-	3	2	3
C603-CS8601/MOBILE COMPUTING														
C603.1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
C603.2	3	2	-	-	-	-	-	-	-	-	-	-	-	-

C603.3	3	2	2	-	-	-	-	-	-	-	-	2	-	2
C603.4	3	3	2	2	-	2	-	-	-	-	-	2	2	2
C603.5	3	3	3	3	3	3	-	2	2	-	-	3	2	3
C603.6	3	3	3	3	2	2	2	-	-	-	-	2	3	3
C604-CS8602/ COMPILER DESIGN														
C604.1	3	3	3	2	-	-	-	-	2	-	-	-	3	2
C604.2	-	3	3	3	3	-	-	-	-	-	-	-	3	3
C604.3	3	3	3	3	2	-	-	-	2	-	2	-	3	3
C604.4	3	3	3	-	2	-	-	-	2	-	2	-	3	3
C604.5	3	-	-	2	-	-	-	-	-	-	-	3	3	2
C604.6	-	3	-	2	3	-	-	-	-	-	-	-	2	3
C605-CS8603/DISTRIBUTED SYSTEMS														
C605.1	2	2	2	2	-	-	-	-	-	-	-	-	-	-
C605.2	3	3	3	3	2	-	-	-	-	-	-	2	2	3
C605.3	2	2	2	2	-	-	-	-	-	-	-	2	-	2
C605.4	3	2	3	2	2	-	-	-	-	-	-	2	2	3
C605.5	3	3	3	2	2	-	-	-	-	-	-	2	2	2
C606-IT8076/SOFTWARE TESTING														
C606.1	-	-	-	3	-	-	-	-	-	-	-	-	3	-
C606.2	-	-	3		-	-	-	-	-	-	-	-	3	-
C606.3	-	-	2		-	-	-	-	-	-	-	-	3	-
C606.4	-	-	-		-	-	-	-	-	3	3	-	2	-
C606.5	-	-	-		-	-	-	-	-	2	2	-	2	-
C606.6	-	-	2	2	-	-	-	-	-	-	-	2	2	2
C607-CS8661/ INTERNET PROGRAMMING LABORATORY														

C607.1	2	2	-	-	-	-	-	-	-	-	-	-	2	2
C607.2	2	3	2	-	-	-	-	-	-	-	-	-	-	2
C607.3	3	2	2	-	-	-	-	-	-	-	-	-	2	-
C607.4	3	3	3	2	-	-	-	-	-	-	-	-	-	2
C607.5	2	3	3	2	-	-	-	-	-	-	-	-	2	3
C607.6	2	3	3	3	-	-	-	-	-	-	-	-	2	3
C608-CS8662/MOBILE APPLICATION DEVELOPMENT LABORATORY														
C608.1	3	3	2		3		-	-	-	-	-		3	2
C608.2	3	3	2		2		-	-	-	-	-		3	2
C608.3	3	3	2		2		-	-	-	-	-		2	3
C608.4	3	3	2		3		-	-		-	-		3	2
C608.5	3	3	2		2		-	-	-	-	-		3	3
C609-CS8611/MINI PROJECT														
C609.1	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C609.2	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C609.3	3	3	-	2	2	-	-	-	-	-	-	3	3	2
C609.4	3	3	-	2	2	-	-	-	-	-	-	-	3	-
C609.5	2	2	2	2	2	-	-	-	-	-	-	3	3	2
C609.6	2	2	-	2		-	-	-	-	-	-	-	-	-
C610-HS8581/PROFESSIONAL COMMUNICATION														
C610.1	3	2	3	-	-	-	-	-	3	2	2	2	-	-
C610.2	3	2	2	-	-	-	-	-	3	2	2	3	-	-
C610.3	3	3	2	-	-	-	-	-	3	2	2	3	-	-
C610.4	3	2	2	-	-	-	-	-	3	2	2	2	-	-
C610.5	3	3	2	-	-	-	-	-	3	2	2	3	-	-

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C701-MG8591/PRINCIPLES OF MANAGEMENT														
C701.1	2	-	-	-	-	2	2	-	2	3	-	2	-	-
C701.2	2	-	-	-	-	2	2	-	2	3	-	2	-	-
C701.3	3	-	-	-	-	3	2	-	2	3	-	2	-	-
C701.4	3	-	-	-	-	3	2	-	2	3	-	2	-	-
C701.5	2	-	-	-	-	2	3	-	2	3	-	2	-	-
C701.6	2	-	-	-	-	2	3	-	2	3	-	2	-	-
C702-CS8792/ CRYPTOGRAPHY AND NETWORK SECURITY														
C702.1	3	3	2	2	2	-	-	-	-	-	-	2	3	2
C702.2	3	3	2	2	2	-	2	-	-	-	-	2	3	2
C702.3	3	3	3	2	3	2	2	3	3	-	3	2	3	2
C702.4	3	3	3	2	3	2	3	3	3	3	2	2	3	3
C702.5	3	3	2	2	2	2	2	2	-	-	-	2	3	3
C702.6	3	3	2	2	2	2	3	2	2	2	2	2	3	2
C703-CS8791/CLOUD COMPUTING														
C703.1	3	-	-	-	-	-	-	-	-	-	-	-	-	-
C703.2	3	2	2	2	-	2	-	-	-	-	-	-	3	2
C703.3	3	-	-	-	-	-	-	-	-	-	-	-	-	-
C703.4	3	3	3	3	3	3	2	-	-	-	-	3	3	2
C703.5	3	3	2	2	-	-	2	-	-	-	-	-	2	2
C703.6	3	3	2	2	3	-	-	3	-	-	-	3	3	3
C704/OBM752/ HOSPITAL MANAGEMENT														
C704.1	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C704.2	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C704.3	3	3	-	2	2	-	-	-	-	-	-	3	3	2

C704.4	3	3	-	2	2	-	-	-	-	-	-	-	3	-
C704.5	3	3	2	2	2	-	-	-	-	-	-	3	3	2
C704.6	3	3	-	2		-	-	-	-	-	-	-	-	-
C705- IT8074/SERVICE ORIENTED ARCHITECTURE														
C705.1	2	2	3	-	2	-		-	-	-	-	-	-	3
C705.2	2	2	3	-	3	-	-	-	-	-	-	-	-	3
C705.3	2	2	-	-	-	-	-	-	-	-	-	-	2	-
C705.4	2	2	3	-	-	-	-	-	-	-	-	-	2	-
C705.5	2	2	3	-	3	-	-	2	-	-	2	-	-	3
C705.6	2	2	3	-	3	-	-	2	-	-	2	-	-	-
C706- CS8079/HUMAN COMPUTER INTERACTION														
C706.1	3	3	2	-	2	-	-	-	-	-	-	-	1	2
C706.2	2	3	3	1	2	3	-	-	-	-	-	-	3	2
C706.3	1	2	-	2	-	2	-	1	-	1	-	-	2	2
C706.4	3	3	2	2	2	2	2	1	-	-	-	-	2	2
C706.5	3	3	3	2	2	2	-	-	1	-	2	-	1	2
C706.6	3	3	2	1	2	2	1	-	-	-	-	-	3	2
C707-CS8711/ CLOUD COMPUTING LABORATORY														
C707.1	3	3	3	-	3	-	-	-	-	-	-	3	3	2
C707.2	3	3	3	2	3	-	-	-	-	-	-	3	3	2
C707.3	3	3	3	-	3	-	-	-	-	-	-	3	2	3
C707.4	3	3	3	3	3	-	-	-	-	-	-	3	3	2
C707.5	3	3	3	-	3	-	-	-	-	-	-	3	3	3
C707.6	3	3	3	-	3	-	-	-	-	-	-	3	3	2
C708-IT8761/SECURITY LABORATORY														

C708.1	3	3	3	2	2	2	-	2	2	2	-	3	3	2
C708.2	3	3	3	3	2	3	-	2	2	2	-	3	3	3
C708.3	3	3	3	3	2	3	-	3	2	2	-	3	2	3
C708.4	3	3	3	3	3	3	-	3	3	2	-	3	2	3
C708.5	3	3	2	-	3	3	-	2	2	-	-	3	2	2
C801- CS8074/CYBER FROENSICS														
C801.1	3	3	-	-	-	2	-	-	-	-	-	2	2	-
C801.2	3	3	-	-	2	-	-	-	-	2	-	-	2	-
C801.3	3	-	-	2	2	2	-	-	-	2	-	2	-	2
C801.4	2	-	-	-	-	2	-	-	-	-	-	2	-	2
C801.5	3	2	-	-	-	2	-	-	-	-	-	2	2	-
C801.6	3	-	-	2	-	2	-	-	-	-	-	2	-	2
C802-CS8078/GREEN COMPUTING														
C802.1	-	3	-	-		3	-	-	-	-	-	2	2	-
C802.2	3	3	-	-			-	-	-	-	-	-	-	-
C802.3	3	-	-	-	2	2	-	-	-	2	-	2	-	2
C802.4	2	-	-	-			-	-	-	-	-	2	-	-
C802.5	3	3	-	-		2	-	-	-	-	-	2	2	-
C804-CS8811/ PROJECT WORK														
C804.1	2	-	-	3	-	-	-	-	3	2	3	2	-	2
C804.2	-	3	3	-	-	-	-	-	3	3	3	-	3	3
C804.3	-	-	-	3	2	-	-	3	3	-	3	-	3	3
C804.4	-	-	-	-	2	3	-	-	3	-	3	-	-	3

M.I.E.T. ENGINEERING COLLEGE
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi.
(An ISO 9001:2015 Certified Institution)
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Regulation - 2017 - PG

M.E. COMPUTER SCIENCE AND ENGINEERING

YEAR/SEMESTER : I/I	
S.No	**Course Outcome**
C101/MA5160/ APPLIED PROBABILITY AND STATISTICS	
C101.1	Apply the concept to find moments and moment generating functions of distributions using the definition of a random variable.
C101.2	Find marginal, conditional distribution, statistical average for the standard probability function.
C101.3	For the standard probability function, find the marginal, conditional distribution, statistical average.
C101.4	Find the M.L.E. and fit curves and regression lines using the least squares principle.
C101.5	Small and large samples should be identified, and hypothesis testing should be used.
C101.6	The students should have the ability to use the appropriate and relevant, fundamental and applied mathematical and statistical knowledge, methodologies and modern computational tools.
C102/CP5151/ADVANCED DATA STRUCTURES AND ALGORITHMS	
C102.1	Understand Asymptotic notations and use recurrences methods.
C102.2	Design programs for implementing trees and hierarchical data structures.
C102.3	Implement various algorithms using graph structures
C102.4	Develop programs for dynamic programming problems.
C102.5	Design programs to implement greedy algorithms.
C102.6	Understand and prove NP Completeness
C103/CP5152/ADVANCED COMPUTER ARCHITECTURE	
C103.1	Understands the concepts of parallel computing and hardware technologies.

C103.2	Analyze linear and non-linear pipeline processors.
C103.3	Compare and contrast the parallel architectures.
C103.4	Illustrate parallel programming concepts.
C103.5	Measure the performance of the architecture in terms of right parameters.
C103.6	Summarize parallel architecture and software used for them.
C104/ CP5153/ OPERATING SYSTEM INTERNALS	
C104.1	Identify basic components of UNIX operating system.
C104.2	Conceptualize synchronization amongst various components of a typical operating System.
C104.3	Understand and simulate activities of various File System.
C104.4	Describe the memory management system
C104.5	Illustrate Process communication and program Execution.
C104.6	Correlate basic concepts of operating system with an existing operating system.
C105/ CP5154/ ADVANCED SOFTWARE ENGINEERING	
C105.1	At the end of this course, the students will be able to:
C105.2	Understand the advantages of various Software Development Lifecycle Models
C105.3	Gain knowledge on project management approaches as well as cost and schedule estimation strategies
C105.4	Perform formal analysis on specifications
C105.5	Use UML diagrams for analysis and design
C105.6	Architect and design using architectural styles and design patterns
C106/CP5191/MACHINE LEARNING TECHNIQUES	
C106.1	Differentiate various learning approaches, and to interpret the concepts of supervised learning.
C106.2	Compare the different dimensionality reduction techniques.
C106.3	Apply theoretical foundations of decision trees to identify best split and Bayesian

	classifier to label data points.
C106.4	Illustrate the working of classifier models like SVM, Neural Networks and identify classifier model for typical machine learning applications.
C106.5	Identify the state sequence and evaluate a sequence emission probability from a given HMM.
C106.6	Illustrate and apply clustering algorithms and identify its applicability in real life problems.
C107/ CP5161/DATA STRUCTURES LABORATORY	
C107.1	Create programs for various sorting algorithms.
C107.2	Design programs for implementing trees structures.
C107.3	Develop programs for implementing heap structures
C107.4	Implement various programs for application of graphs.
C107.5	Develop programs for solving dynamic programming problems.
C107.6	Write programs for implementing greedy algorithms.
YEAR/SEMESTER : I/II	
C108/CP5201/ NETWORK DESIGN AND TECHNOLOGIES	
C108.1	Identify the components required for designing a network
C108.2	Design a network at a high-level using different networking technologies
C108.3	Analyze the various protocols of wireless and cellular networks
C108.4	Discuss the features of 4G and 5G networks
C108.5	Experiment with software defined networks
C109/CP5291/ SECURITY PRACTICES	
C109.1	Identify with the core fundamental concepts of system security
C109.2	Apply the security concepts related to wired and wireless scenario
C109.3	Implement and deal with the security essentials in IT Sector

C109.4	Competent to explain the concepts of Cyber Security and encryption Concepts
C109.5	Able to attain a through knowledge in the area of privacy and storage security and related issues.
C110/CP5292/ INTERNET OF THINGS	
C110.1	Analyze various protocols for IoT
C110.2	Develop web services to access/control IoT devices.
C110.3	Design a portable IoT using Rasperry Pi
C110.4	Deploy an IoT application and connect to the cloud.
C110.5	Analyze applications of IoT in real time scenario
C111/ CP5293/ BIG DATA ANALYTICS	
C111.1	Understand the impact of data analytics for business decisions and strategy
C111.2	Carry out data analysis/statistical analysis
C111.3	To carry out standard data visualization and formal inference procedures
C111.4	Design Data Architecture
C111.5	Understand various Data Sources
C111.6	Collect, manage, store, query, and analyze various form of big data
C112/ CP5093MOBILE AND PERVASIVE COMPUTING	
C112.1	Obtain a thorough understanding of Basic Mobile computing architecture and concepts
C112.2	Explain the latest 4G Telecommunications systems
C112.3	Express the knowledge of basic concepts of pervasive computing
C112.4	Implement the Human Computer Interaction in Pervasive computing
C112.5	Work on the pervasive concepts in Mobile Environment
C113/CP5071/IMAGE PROCESSING AND ANALYSIS	
C113.1	Demonstrate how digital images are acquired, stored and relationship between pixels

C113.2	Apply image transformation, and image enhancement techniques.
C113.3	Remove noise from real-world imagery using a variety of filtering techniques in spatial and frequency domain
C113.4	Illustrate image compression, and image segmentation techniques.
C113.5	Represent features of images.
C114/ CS5261/DATA ANALYTICS LABORATORY	
C114.1	Process big data using Hadoop framework
C114.2	Build linear and logistic regression models
C114.3	Apply linear and logistic regression models
C114.4	Perform data analysis with machine learning methods
C114.5	Perform graphical data analysis
C115/CP5281/ TERM PAPER WRITING AND SEMINAR	
C115.1	Collection of Journal papers in the topic in the context of the objective – collect 20 & then filter
C115.2	To Develop the Reading and notes for first 5 papers.
C115.3	Write the sections of your paper based on the classification / categorization diagram in keeping with the goals of your survey
C115.4	Illustrate the Collecting the relevant bibliography
C115.5	Studying the papers and understanding the author's contributions and critically analyzing each paper.
C115.6	Illustrate and Writing the Final Paper and giving the final Presentation.
YEAR/SEMESTER : II/III	
C201/CP5005/SOFTWARE QUALITY ASSURANCE AND TESTING	
C201.1	Perform functional and nonfunctional tests in the life cycle of the software product.
C201.2	Understand system testing and test execution process.
C201.3	Identify defect prevention techniques and software quality assurance metrics.

C201.4	Apply techniques of quality assurance for typical applications.
C201.5	To build design concepts for system testing and execution
C202/ CP5074/SOCIAL NETWORK ANALYSIS	
C202.1	Work on the internals components of the social network.
C202.2	Model and visualize the social network.
C202.3	Mine the behavior of the users in the social network.
C202.4	Predict the possible next outcome of the social network.
C202.5	Apply social network in real time applications.
C203/CP5076/INFORMATION STORAGE MANAGEMENT	
C203.1	To Understand the Concept of Information Storage and Data center Environment.
C203.2	To understand about Data Protection.
C203.3	To Know and understand Intelligent Storage System.
C203.4	To Understand Fiber Channel SAN
C203.5	To Understand Network Attached Storage (NAS).
C203.6	To Know the Backup and Archive Technologies.
C204/CP5311/ PROJECT WORK PHASE – I	
C204.1	Identify and finalize problem statement by surveying variety of domains
C204.2	Perform requirement analysis and identify design methodologies
C204.3	Apply advanced programming techniques
C204.4	Present technical report by applying different visualization tools and Evaluation metrics
C204.5	Able to know the importance of collection framework in developing effective programs
YEAR/SEMESTER : II/IV	
C206/CP5411-PROJECT PHASE - II	
C206.1	Plan and construct improved methods for an identified problem by applying acquired knowledge
C206.2	Experiment and Develop effective solutions through proper designing

C206.3	Analyze and categorize the outcomes of the implementation and derive inferences. Assess the acquired outcomes based on evaluation metrics
C206.4	Examine the completed task and compile the project report
C206.5	Identify the problem by applying acquired knowledge
C206.6	Plan and construct improved methods for an identified problem by applying acquired knowledge

Course Outcome	**Programme Outcomes I & II YEAR PG SUBJECTS**												**PSOs**	
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**1**	**2**
C101/MA5160/ APPLIED PROBABILITY AND STATISTICS														
C101.1	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.2	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.3	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.4	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.5	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C101.6	3	2	-	-	-	-	-	-	-	-	-	-	2	2
C102/CP5151/ADVANCED DATA STRUCTURES AND ALGORITHMS														
C102.1	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C102.2	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C102.3	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C102.4	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C102.5	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C102.6	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C103/CP5152/ADVANCED COMPUTER ARCHITECTURE														
C103.1	2	2	-	-	-	2	-	-	-	-	-	1	2	-

C103.2	2	2	-	-	2		-	-	-	1	-		2	-
C103.3	2	-	-	2	2	1	-	-	-	1	-	1	-	1
C103.4	2	-	-	-	-	1	-	-	-	-	-	1	-	1
C103.5	2	2	-	-	-	1	-	-	-	-	-	2	2	-
C103.6	2	-	-	2	-	2	-	-	-	-	-	2	-	2
C104/ CP5153/OPERATING SYSTEM INTERNALS														
C104.1	3	3	3	1	-	-	-	-	1	-	-	2	1	2
C104.2	3	3	3	1	-	-	-	-	1	-	-	1	1	2
C104.3	3	3	3	1	-	-	-	-	1	-	-	1	2	1
C104.4	3	3	3	1	-	-	-	-	1	-	-	2	1	1
C104.5	3	3	3	2	-	-	-	-	-	-	-	-	1	1
C104.6	3	3	3	3	-	-	-	-	-	-	-	-	1	1
C105/ CP5154-ADVANCED SOFTWARE ENGINEERING														
C105.1	3	3	-	3	2	-	-	-	-	-	-		3	-
C105.2	3	3	-	3	2	-	-	-	-	-	-		3	-
C105.3	3	3	-	2	2	-	-	-	-	-	-	3	3	2
C105.4	3	3	-	2	2	-	-	-	-	-	-		3	-
C105.5	3	3	2	2	2	-	-	-	-	-	-	3	3	2
C105.6	3	3	-	2	-	-	-	-	-	-	-	-	-	-
C106/ CP5191-MACHINE LEARNING TECHNIQUES														
C106.1	3	3	3	1	-	-	-	-	1	-	-	2	1	2
C106.2	3	3	3	1	-	-	-	-	1	-	-	1	1	2
C106.3	3	3	3	1	-	-	-	-	1	-	-	1	2	1
C106.4	3	3	3	1	-	-	-	-	1	-	-	2	1	1
C106.5	3	3	3	2	-	-	-	-	-	-	-	-	1	1

C106.6	3	3	3	3	-	-	-	-	-	-	-	-	1	1
C107/ CP5161- DATA STRUCTURES LABORATORY														
C107.1	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C107.2	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C107.3	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C107.4	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C107.5	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C107.6	3	3	3	2	-	-	-	-	-	-	-	-	3	2
C108/CP5201/NETWORK DESIGN AND TECHNOLOGIES														
C108.1	3	3	2	2	3	2	2	-	2	2	-	-	3	2
C108.2	3	2	3	2	3	2	2	-	2	2	-	-	3	2
C108.3	3	2	2	2	3	-	-	-	-	-	-	-	3	2
C108.4	3	2	2	2	2	-	-	-	-	-	-	-	3	2
C108.5	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C109/CP5291/SECURITY PRACTICES														
C109.1	3	2	2	-	-	-	-	-	-	-	-	-	2	1
C109.2	3	3	2	2	-	-	-	-	-	-	-	-	2	1
C109.3	3	2	3	2	2	-	-	-	2	1	2	-	1	-
C109.4	3	3	3	2	2	-	-	-	2	1	2	-	2	-
C109.5	3	2	-	-	-	-	2	-	-	-	-	-	1	-
C109.6	3	3	-	-	-	-	2	-	-	-	-	-	2	-
C110/CP5292/INTERNET OF THINGS														
C110.1	3	3	2	2	3	2	2	-	2	2	-	-	3	2
C110.2	3	2	3	2	3	2	2	-	2	2	-	-	3	2
C110.3	3	2	2	2	3	-	-	-	-	-	-	-	3	2

C110.4	3	2	2	2	2	-	-	-	-	-	-	-	3	2
C110.5	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C111/ CP5293/BIG DATA ANALYTICS														
C111.1	3	3	2	2	-	-	-	-	-	-	-	-	3	-
C111.2	3	3	2	2	2	-	-	-	-	-	-	-	3	-
C111.3	3	2	2	2	2	-	-	-	-	-	-	-	3	-
C111.4	3	2	2	2	2	-	-	-	-	-	-	-	2	-
C111.5	3	2	2	2	2	-	-	-	-	-	-	-	2	-
C112/CP5071 /IMAGE PROCESSING AND ANALYSIS														
C112.1	2	3	3	1	2	3	-	-	-	-	-	-	3	2
C112.2	2	3	3	1	2	3	-	-	-	-	-	-	3	2
C112.3	3	3	2	2	2	2	2	1	-	-	-	-	2	2
C112.4	3	3	2	2	2	2	2	1	-	-	-	-	2	2
C112.5	3	3	3	2	2	2	-	-	1	-	2	-	1	2
C113/ CP5093/MOBILE AND PERVASIVE COMPUTING														
C113.1	3	3	3	3	-	2	2	-	-	-	-	3	2	3
C113.2	3	3	3	2	-	2	2	-	-	-	-	3	2	3
C113.3	3	3	-	-	-	-	-	-	-	-	-	-	-	-
C113.4	3	3	-	-	-	-	-	-	-	-	-	-	-	-
C113.5	3	3	-	-	-	-	-	-	-	-	-	-	-	-
C114/CP5261/DATA ANALYTICS LABORATORY														
C114.1	3	3	2	2	2	-	-	-	-	-	-	-	3	2
C114.2	3	2	3	2	2	-	-	-	-	-	-	-	3	2
C114.3	3	2	2	2	2	-	-	-	-	-	-	-	2	2
C114.4	3	-	-	2	2	-	-	-	-	-	-	-	2	2

C114.5	3	-	-	2	2	-	-	-	-	-	-	-	2	-
C115/CP5281/TERM PAPER WRITING AND SEMINAR														
C115.1	3	2	2	1	-	-	-	-	1	-	-	2	1	2
C115.2	3	2	2	1	-	-	-	-	1	-	-	1	1	2
C115.3	3	2	3	1	-	-	-	-	1	-	-	1	2	1
C115.4	3	2	2	1	-	-	-	-	1	-	-	2	1	1
C115.5	3	2	2	2	-	-	-	-	-	-	-	-	1	1
C115.6	2	2	2	3	-	-	-	-	-	-	-	-	1	1
C201/CP5005/SOFTWARE QUALITY ASSURANCE AND TESTING														
C201.1	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C201.2	3	3	-	3	2	-	-	-	-	-	-	-	3	-
C201.3	3	3	-	2	2	-	-	-	-	-	-	3	3	2
C201.4	3	3	-	2	2	-	-	-	-	-	-	-	3	-
C201.5	3	3	2	2	2	-	-	-	-	-	-	3	3	2
C202/CP5074/SOCIAL NETWORK ANALYSIS														
C202.1	3	2	3	2	-	-	-	-	1	-	-	2	1	2
C202.2	3	2	3	2	-	-	-	-	2	-	-	1	1	2
C202.3	3	2	3	2	-	-	-	-	1	-	-	2	2	1
C202.4	3	2	3	2	-	-	-	-	1	-	-	2	1	1
C202.5	2	2	3	2	-	-	-	-	-	-	-	-	1	1
C203/ CP5076/INFORMATION STORAGE MANAGEMENT														
C203.1	2	3	3	1	2	3	-	2	2	2	-	-	3	2
C203.2	1	2	-	2	-	2	-	2	2	2	-	-	2	2
C203.3	2	2	-	2	-	2	-	2	2	2	-	-	2	2

C203.4	3	3	2	2	2	2	2	2	2	2	-	-	2	2
C203.5	3	3	3	2	2	2	-	2	2	2	2	-	1	2
C203.6	3	3	2	2	3	-	-	2	2	2	2	2	3	2
C204/ CP5311-PROJECT PHASE - I														
C204.1	3	3	-	-	-	2	-	-	-	-	-	2	2	-
C204.2	3	3	-	-	2	-	-	-	-	2	-	-	2	-
C204.3	3	-	-	2	2	2	-	-	-	2	-	2	-	2
C204.4	2	-	-	-	-	2	-	-	-	-	-	2	-	2
C204.5	3	2	-	-	-	2	-	-	-	-	-	2	2	-
C205/CP5411-PROJECT P3ASE - II														
C206.1	3	3	-	-	-	2	-	-	-	-	-	2	2	-
C206.2	3	3	-	-	2	-	-	-	-	2	-	-	2	-
C206.3	3	-	-	2	2	-	-	-	-	2	-	2	-	2
C206.4	2	-	-	-	-	2	-	-	-	-	-	2	-	2
C206.5	3	2	-	-	-	2	-	-	-	-	-	2	2	-

PRINCIPAL