



**MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE**  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**REGULATION-2013**  
**COURSE OUTCOMES**

**MA6351-Transforms and partial differential Equations – [C201]**

C201.1	Formulate and solve partial differential equations.
C201.2	Evaluate Fourier series of periodic functions.
C201.3	Apply the method of separation of variables to find the solution of heat and wave equation.
C201.4	Illustrate the Fourier transform techniques.
C201.5	Examine Z transform techniques and solve difference equations.

**CS6301 - Programming and Data Structure II – [C202]**

C202.1	Explain the fundamentals of Object Oriented Programming.
C202.2	Demonstrate the concepts of data abstraction, encapsulation and inheritance.
C202.3	Outline the concepts of Exception handling and templates.
C202.4	Summarize about tree preliminaries and other tree structures.
C202.5	Demonstrate different graph data structure algorithms.

**CS6302 - Database Management Systems - [C203]**

C203.1	Design Databases for applications and use the Relational model, ER Diagrams.
C203.2	Construct DDL, DML, TCL and DCL commands for different databases with various constraints.
C203.3	Apply concurrency control and recovery mechanisms for practical Problems.
C203.4	Able to select best data storage medium for databases.
C203.5	Apply security concepts to databases.

  
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**CS6303 - Computer Architecture – [C204]**

C204.1	Understand basic structure and operation of digital computer.
C204.2	Design arithmetic and logic unit.
C204.3	Design and analyze pipelined control units.
C204.4	Understand parallel processing architectures.
C204.5	Evaluate performance of memory systems.

**CS6304 - Analog and Digital Communication - [C205]**

C205.1	Apply analog communication techniques.
C205.2	Apply digital communication techniques.
C205.3	Use data and pulse communication techniques.
C205.4	Analyze Source and Error control coding.
C205.5	Utilize multi-user radio communication.

**GE6351 - Environment Science and Engineering – [C206]**

C206.1	Gain knowledge on flora and fauna in our environment helps to know about social environment.
C206.2	Gain knowledge on the offensive effects of pollution in the day-to-day life.
C206.3	Gain knowledge on the basic concepts of Climate Change, Water scarcity and water shortage.
C206.4	Adequate knowledge on the concepts of adverse effects of social issues like acid rain and global warming.
C206.5	Gain knowledge about the problems faced by the society due to population explosion.

  
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**CS6311- Programming and Data Structure Laboratory II - [C207]**

C207.1	Select good programming design methods for program development.
C207.2	Develop C++ programs for object oriented concepts.
C207.3	Develop C++ programs for handling exceptions.
C207.4	Develop C++ programs for practical problems using non-linear data structures.
C207.5	Develop recursive programs using trees and graphs.

**CS6312 - Database Management Systems Lab – [C208]**

C208.1	Infer database language commands to create simple database.
C208.2	Analyze the database using queries to retrieve records.
C208.3	Applying PL/SQL for processing database.
C208.4	Analyze front end tools to design forms, reports and menus.
C208.5	Develop solutions using database concepts for real time requirements.

**MA6453 - Probability and Queueing Theory – [C209]**

C209.1	Interpret the axiomatic formulation of Probability theory and random variables as an intrinsic need for the analysis of random phenomena.
C209.2	Identify probability models, function of random variables based on one & two dimensional random variables and determine regression.
C209.3	Classify the concept of random processes and to demonstrate the specific applications to Poisson and Markov Processes.
C209.4	Examine the specific applications of queuing models.
C209.5	Illustrate the networks ideas and series queues.



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**CS6551 - Computer Networks – [C210]**

C210.1	Explain the components requirement of networks and link layer service.
C210.2	Classify the Media Access Control Protocols and different Internetworking.
C210.3	Demonstrate various types of routing techniques.
C210.4	Outline the mechanisms involved in transport layer.
C210.5	Experiment with different application layer protocols.

**CS6401 - Operating Systems – [C211]**

C211.1	Explain the basic concepts ,functions of Operating Systems and system calls.
C211.2	Outline various threading models, process synchronization, Compare the performance of various CPU scheduling algorithms and deadlocks.
C211.3	Compare and contrast various memory management schemes.
C211.4	Explain I/O management and file systems.
C211.5	Model Linux multifunction server and utilize local network services.

**CS6402 - Design and Analysis of Algorithms – [C212]**

C212.1	Analyze the complexity of algorithms for various computing problems.
C212.2	Design and analyse solutions to problems based on Brute Force and Divide and Conquer approaches.
C212.3	Design and analyse solutions to problems based on dynamic programming and greedy approach.
C212.4	Design and analyse solutions to problems based on iterative improvement method.
C212.5	Modify existing algorithms to improve efficiency.



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**EC6504 - Microprocessor and Microcontroller – [C213]**

C213.1	Understand architecture of 8086 and Design and implement programs on 8086 microprocessor.
C213.2	Understand signals, system bus architecture of 8086 and multiprocessor configuration.
C213.3	Design and implement interfacing of I/O circuits with 8086 microprocessor.
C213.4	Understand architecture of 8051 microcontroller.
C213.5	Understand architecture of 8051, Design and implement programs on 8051 microcontroller.

**CS6403 - Software Engineering – [C214]**

C214.1	Explain the software engineering process and project management.
C214.2	Demonstrate software requirements and analysis.
C214.3	Outline the software design process and user interface.
C214.4	Compare and contrast various software testing.
C214.5	Discuss about the software integration and project management.

**CS6411 - Networks Laboratory – [C215]**

C215.1	Use simulation tools.
C215.2	Implement the various protocols.
C215.3	Analyze the performance of the protocols in different layers.
C215.4	Analyze various routing algorithms.



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**CS6412 - Microprocessor and Microcontroller Lab – [C216]**

C216.1	Introduce ALP concepts and features.
C216.2	Write ALP for arithmetic and logical operations in 8086 and 8051.
C216.3	Differentiate Serial and Parallel Interface.
C216.4	Interface different I/Os with Microprocessors.
C216.5	Be familiar with MASM.

**CS6413 - Operating Systems laboratory – [C217]**

C217.1	learn Unix commands and shell programming.
C217.2	Implement various CPU Scheduling Algorithms.
C217.3	Implement Process Creation and Inter Process Communication.
C217.4	Implement Deadlock Avoidance and Deadlock Detection Algorithms.
C217.5	Implement Page Replacement Algorithms and File Organization , File Allocation Strategies.

**MA6566 - Discrete Mathematics – [C301]**

C301.1	Make use of propositions, predicates and flow of logical proofs.
C301.2	Acquire knowledge on induction and counting principles and to solve recurrence relation.
C301.3	Perceive the knowledge of various types and characteristics of graphs.
C301.4	Interpret concepts and properties of groups, rings and fields.
C301.5	Comprehend the ideas of lattices and Boolean algebra.

  
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**CS6501 - Internet Programming – [C302]**

C302.1	Explain the concepts of Control Statements, I/O Applet and Threading.
C302.2	Develop a basic website using HTML and Cascading Style Sheets.
C302.3	Compare and contrast the Java Script programming for client and server along with its event handling mechanisms.
C302.4	Build a simple web page in PHP with XML data format.
C302.5	Explain web services and client presentation using AJAX.

**CS6502 - Object Oriented Analysis & Design – [C303]**

C303.1	Design and implement projects using OO concepts.
C303.2	Use the UML analysis and design diagrams.
C303.3	Apply appropriate design patterns.
C303.4	Create code from design.
C303.5	Compare and contrast various testing techniques.

**CS6503 - Theory of Computation – [C304]**

C304.1	Outline the concept of Finite Automata and Regular Expression.
C303.2	Illustrate the design of Context Free Grammar for any language set.
C303.3	Demonstrate the push down automaton model for the given language.
C303.4	Make use of Turing machine concept to solve the simple problems.
C303.5	Explain decidability or un decidability of various problems.



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**CS6504 - Computer Graphics – [C305]**

C305.1	Understand graphical devices and output primitives.
C305.2	Design and Apply two dimensional transformations.
C305.3	Design and Apply three dimensional graphics.
C305.4	Apply Illumination and color models.
C305.5	Design animation sequences.

**CS6511 - Case Tools Laboratory – [C306]**

C306.1	Design and implement projects using OO concepts.
C306.2	Use the UML analysis and design diagrams.
C306.3	Apply appropriate design patterns.
C306.4	Create code from design.
C306.5	Compare and contrast various testing techniques.

**CS6512 - Internet Programming Lab – [C307]**

C307.1	Illustrate web pages using HTML/XML and style sheets.
C307.2	Analyze user interfaces using Java frames and applets.
C307.3	Compare and contrast dynamic web pages using server side scripting.
C307.4	Develop a Client Server application and use the frameworks JSP Strut, Spring.
C307.5	Build the applications using AJAX.

  
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**CS6513 - Computer Graphics Lab –[C308]**

C308.1	Create 3D graphical scenes using open graphics library suits.
C308.2	Implement image manipulation and enhancement.
C308.3	Create 2D animations using tools.

**CS6601 - Distributed Systems – [C309]**

C309.1	Explain the distributed systems architecture, foundations and issues of distributed systems.
C309.2	Outline the inter process communication in distributed systems.
C309.3	Explain the file accessing model and various services in distributed system.
C309.4	Demonstrate concurrency control and properties of transaction in Distributed systems.
C309.5	Discuss resource and process management in distributed system

**IT6601 - Mobile Computing – [C310]**

C310.1	Explain the basics of mobile telecommunication system.
C310.2	Choose the required functionality at each layer for given application.
C310.3	Identify solution for each functionality at each layer.
C310.4	Use simulator tools and design Ad hoc networks.
C310.5	Develop a mobile application.



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**CS6660 - Compiler Design – [C311]**

C311.1	Understand the different phases of compiler.
C311.2	Design lexical analyser for a sample language.
C311.3	Apply different parsing algorithms to develop the parsers for a given grammar.
C311.4	Understand syntax-directed translation and run-time environment.
C311.5	Apply code optimization techniques and design simple code generator.

**IT6502 - Digital Signal Processing – [C312]**

C312.1	Apply DFT for the analysis of digital signals and systems.
C312.2	Design IIR and FIR filters.
C312.3	Characterize finite word length effects on filters.
C312.4	Design the Multi rate filters.
C312.5	Apply adaptive filters to equalization.

**CS6659 - Artificial Intelligence – [C313]**

C313.1	Understand the various AI search algorithms (uninformed, informed, constraint satisfaction algorithms).
C313.2	Apply various knowledge representation techniques to solve real world problems.
C313.3	Demonstrate the knowledge of reasoning with certain and/or uncertain information.
C313.4	Identify various planning techniques and machine learning techniques to solve real-world problems.
C313.5	Analyse the application of expert systems.



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**GE6757 - Total Quality Management – [C314]**

C314.1	Select and apply appropriate techniques in identifying customer needs, as well as the quality impact that will be used as inputs in TQM methodologies.
C314.2	Have a strategy to create and maintain a quality culture that will move the organization towards world-class status.
C314.3	Understand the TQM concept and techniques for managing, controlling and improving quality at the workplace.
C314.4	Knowing business excellence models and be able to assess organizations performance through data collection and analysis.
C314.5	Have a strategy to implement total quality practices at the workplace and effect savings on the input cost of an organization.

**CS6611 - Mobile Application Development Lab – [C315]**

C315.1	Design and Implement various mobile applications using emulators.
C315.2	Deploy applications to hand-held devices.

**CS6612 - Compiler Lab – [C316]**

C316.1	Implement the different Phases of compiler using tools.
C316.2	Analyze the control flow and data flow of a typical program.
C316.3	Optimize a given program.
C316.4	Generate an assembly language program equivalent to a source language.

**GE6674 - Communication and Soft Skills - Laboratory Based – [C317]**

C317.1	Take international examination such as IELTS and TOEFL.
C317.2	Make presentations and Participate in Group Discussions
C317.3	Successfully answer questions in interviews

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**CS6701 - Cryptography and Network Security – [C401]**

C401.1	Understand the classical encryption techniques and solve the mathematical fundamentals behind the cryptographic algorithms.
C401.2	Comprehend the principles and working of block ciphers, symmetric key and public key cryptographic algorithms.
C401.3	Understand the working and usage of hash functions and digital signatures.
C401.4	Describe the various network security practices and design applications.
C401.5	Analyse protocols for various security objectives.

**CS6702 - Graph Theory and Applications – [C402]**

C402.1	Classify precise and accurate mathematical definitions of objects in graph theory.
C402.2	Illustrate fundamentals of circuits ,cutsets, network flows & graph.
C402.3	Discuss about chromatic characteristics and directed graph.
C402.4	Outline Permutations and Combinations with generating function.
C402.5	Make use of theoretical knowledge and independent mathematical thinking in graph theory questions' investigation.

**CS6703 - Grid and Cloud Computing – [C403]**

C403.1	Outline the concept of Grid and Cloud Architectures.
C403.2	Illustrate the data intensive grid service models and grid computing techniques.
C403.3	Demonstrate the concept of virtualization in cloud.
C403.4	Experiment with the programming model for Hadoop and globus toolkit.
C403.5	Interpret the security models in the grid and cloud environment.

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**CS6704 – Resource Management and Techniques – [C404]**

C404.1	Formulate and solve Linear programming problem.
C404.2	Translate Duals from Primals, Optimization of transportation, assignment models and Shortest routes of networks.
C404.3	Demonstrate the concept of Integer and Dynamic programming problem.
C404.4	Assessing unconstrained and constrained extremal problems.
C404.5	Interpret PERT and CPM techniques for time scheduling and tracing critical path network.

**CS6003 - Adhoc Sensor Networks – [C405]**

C405.1	Students will understand the basic concepts of WIRELESS networks and challenges of ad hoc and sensor networks.
C405.2	The students gain knowledge on Classification of the design issues and different categories of MAC protocols .
C405.3	The students understand to explain the various ad hoc routing protocols and transport layer mechanisms.
C405.4	The students understand the sensor network characteristics and wireless sensor network layer protocols .
C405.5	The students will illustrate the issues of routing in wsn and QoS related performance measurements.

**CS6007 - Information Retrieval – [C406]**

C406.1	Learn the role of information retrieval in various real-time applications.
C406.2	Understand and apply the information retrieval models.
C406.3	Design Web Search Engine.
C406.4	Use Link Analysis and understand the Hadoop and Map Reduce.
C406.5	Learn document text mining techniques.

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**CS6711 - Security Lab – [C407]**

C407.1	Implement the cipher techniques.
C407.2	Develop the various security algorithms.
C407.3	Use different open source tools for network security and analysis.

**CS6712 - Grid and Cloud Computing Lab – [C408]**

C408.1	Use the grid and cloud tool kits.
C408.2	Design and implement applications on the Grid.
C408.3	Design and Implement applications on the Cloud.

**CS6801 - Multi-Core Architectures and Programming – [C409]**

C409.1	Understand the need, characteristics for multicore architectures and solve parallel problems.
C409.2	Identify the issues and challenges in programming Parallel Processors.
C409.3	Understand shared memory programming and develop programs using Open MP.
C409.4	Understand distributed memory programming and develop Programs using MPI.
C409.5	Compare and contrast programming for serial processors and programming for parallel processors.

**CS6008 - Human Computer Interaction – [C410]**

C410.1	Design Effective Dialog For HCI.
C410.2	Design Effective HCI For Individuals And Persons With Disabilities.
C410.3	Assess The Importance Of User Feedback.
C410.4	Explain The HCI Implications For Designing Multimedia/ Ecommerce/ E-Learning Web sites.
C410.5	Develop Meaningful User Interface.



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**GE6075 - Professional Ethics in Engineering – [C411]**

C411.1	Gain awareness on human values for professional excellence and stress management.
C411.2	Gain knowledge on engineering ethics, moral issues & uses of ethical theories.
C411.3	Understand the role of engineers as responsible experimenters along with courses of ethics in engineering field.
C411.4	Gain awareness of responsibilities of an engineer for safety and risks along with risk benefit analysis.
C411.5	Acquire knowledge on global issues and able to apply ethical principles to resolve situations that arise in their professional lives.

**CS6811 - Project Work – [C412]**

C412.1	Review the literature and develop solutions for framed problem statement.
C412.2	Implement hardware and/or software techniques for identified problems.
C412.3	Test and analyses the modules of planned project.
C412.4	Write technical report and deliver presentation.
C412.5	Apply engineering and management principles to achieve project goal.

  
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