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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REGULATION-2017
COURSE OUTCOMES

MA8351 - Discrete Mathematics - [C201]

C201.1	Make use of propositions, predicates and flow of logical proofs.
C201.2	Acquire knowledge on induction and counting principles and to solve recurrence relation.
C201.3	Perceive the knowledge of various types and characteristics of graphs.
C201.4	Interpret concepts and properties of groups, rings and fields.
C201.5	Comprehends the ideas of lattices and Boolean algebra.

CS8351 - Digital Principles And System Design - [C202]

C202.1	To understand different methods used for the simplification of Boolean functions.
C202.2	To understand and design a system that uses combinational logic for the given specification; Simulate combinational logic systems using verilog or VHDL.
C202.3	To understand and design synchronous sequential system for the given specification; Simulate sequential logic systems using verilog or VHDL.
C202.4	To design and implement Asynchronous sequential system for the given specification.
C202.5	To design and implement memory accessing systems and systems using PLA, PAL.

CS8391 - Data Structures - [C203]

C203.1	Implement abstract data types for linear data structures – List.
C203.2	Implement and apply the different linear data structures to problem solutions.
C203.3	Implement and apply the non-linear data structure Tree ADT to problem solutions.
C203.4	Implement and apply the non-linear data structure Graph ADT to problem solutions.
C203.5	Critically analyse the various sorting algorithms.

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CS8392 - Object Oriented Programming - [C204]

C204.1	Develop Java programs using OOP principles.
C204.2	Develop Java programs with the concepts inheritance and interfaces.
C204.3	Build Java applications using exceptions and I/O streams.
C204.4	Develop Java applications with threads and generics classes.
C204.5	Develop interactive Java programs using AWT, Swings components with event handling.

EC8395 - Communication Engineering - [C205]

C205.1	Design AM communication systems.
C205.2	To use data and pulse communication techniques.
C205.3	Apply digital communication techniques.
C205.4	Analyze Source and Error control coding.
C205.5	An in- depth knowledge of Spread Spectrum and Multiple Access Techniques.

CS8381 - Data Structures Lab – [C206]

C206.1	Write functions to implement linear and non-linear data structure operations.
C206.2	Suggest appropriate linear / non-linear data structure operations for solving a given Problem.
C206.3	Appropriately use the linear / non-linear data structure operations for a given problem.
C206.4	Apply appropriate hash functions that result in a collision free scenario for data storage and retrieval.

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CS8383 - Object Oriented Programming Laboratory – [C207]

C207.1	Develop and implement Java programs for simple applications that make use of classes.
C207.2	Develop and implement Java programs for simple applications that make use of packages and interfaces.
C207.3	Develop and implement Java programs with array list, exception handling and multithreading.
C207.4	Design applications using file processing, generic programming.
C207.5	Design applications using AWT components and event handling.

EC8382 - Digital Systems Lab – [C208]

C208.1	Implement simplified combinational circuits using basic logic gates.
C208.2	Implement combinational circuits using MSI devices.
C208.3	Implement sequential circuits like registers and counters.
C208.4	Simulate combinational and sequential circuits using HDL.

HS8381 - Interpersonal Skills/Listening & Speaking – [C209]

C209.1	Ability to listen and respond appropriately.
C209.2	Ability to participate in group discussions.
C209.3	Ability to make effective presentations.
C209.4	Ability to listen/view and comprehend different spoken discourses/excerpts different accents and to speak clearly in simple language.
C209.5	Ability to participate confidently and appropriately in formal and informal conversations.

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MA8402 - Probability and Queueing Theory – [C210]

C210.1	To understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions.
C210.2	To understand the basic concepts of one and two dimensional random variables and determine correlation , regression.
C210.3	Classify the concept of random processes and to demonstrate the specific applications to Poisson and Markov Processes.
C210.4	Examine the specific applications of queueing models.
C210.5	Illustrate the network's ideas and series queues.

CS8491 - Computer Architecture – [C211]

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.

CS8492 - Database Management Systems – [C212]

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.

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CS8451 - Design and Analysis of Algorithms – [C213]

C213.1	Analyze the complexity of algorithms for various computing problems.
C213.2	Design and analyse solutions to problems based on Brute Force and Divide and Conquer approaches.
C213.3	Design and analyse solutions to problems based on dynamic programming and greedy approach.
C213.4	Design and analyse solutions to problems based on iterative improvement method.
C213.5	Modify existing algorithms to improve efficiency.

CS8493 - Operating Systems – [C214]

C214.1	Explain the basic concepts .functions of Operating Systems and system calls.
C214.2	Outline various threading models, process synchronization, Compare the performance of various CPU scheduling algorithms and deadlocks.
C214.3	Compare and contrast various memory management schemes.
C214.4	Explain I/O management and file systems.
C214.5	Perform administrative tasks on Linux Servers, Compare iOS and Android Operating Systems.

CS8494 - Software Engineering – [C215]

C215.1	Explain the software process and agile development.
C215.2	Demonstrate the software requirements and analysis.
C215.3	Apply the software design procedure.
C215.4	Compare and contrast various the various software testing and implementation Techniques.
C215.5	Estimate the software project cost and effort.

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CS8481 - Database Management Systems Laboratory – [C216]

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.

CS8461 - 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

HS8461 Advanced Reading and Writing - [C218]

C218.1	Function effectively as an individual in multi-disciplinary settings.
C218.2	Able to comprehend and write effective reports.
C218.3	Write different types of essays by understanding the elements and structure of a good essay.
C218.4	Write winning job application and project report, statement of purpose and apply these in their career.
C218.5	Read and evaluate texts critically and display critical thinking in various professional contexts.

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MA8551 - Algebra and Number Theory – [C301]

C301.1	Apply the basic notations of groups ,rings, field which will be used to solve the related problems.
C301.2	Understand the fundamental concepts of advanced algebra in modern mathematics.
C301.3	Apply the basic knowledge of advanced algebraic techniques in number theory
C301.4	Apply to solve the non-trivial problems related to the concepts and by proving the simple theorem.
C301.5	Apply integrated approach to number theory and abstract algebra.

CS8591 - Computer Networks – [C302]

C302.1	Understand the basic layers and its functions in computer networks and evaluate the performance of the network
C302.2	Understand the basics of how data flows from one node to another
C302.3	Analyze and design routing algorithms.
C302.4	Design protocols for various functions in the network.
C302.5	Understand the working of various application layer protocols

EC8691 - Microprocessors and Microcontrollers – [C303]

C303.1	Understand architecture of 8086 and Design and implement programs on 8086 microprocessor.
C303.2	Understand signals, system bus architecture of 8086 and multiprocessor configuration.
C303.3	Design and implement interfacing of I/O circuits with 8086 microprocessor
C303.4	Understand architecture of 8051 microcontroller.
C303.5	Understand architecture of 8051, Design and implement programs on 8051 microcontroller.

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CS8501 - Theory of Computation – [C304]

C304.1	Construct automata, regular expression for any pattern.
C304.2	Write Context free grammar for any construct.
C304.3	Design Turing machines for any language.
C304.4	Propose computation solutions using Turing machines.
C304.5	Derive whether a problem is decidable or not.

CS8592 - Object Oriented Analysis and Design – [C305]

C305.1	Understand the fundamentals of object modelling and unified process.
C305.2	Design software systems with static UML diagrams.
C305.3	Design software systems using UML dynamic and implementation diagrams.
C305.4	Transform UML based software design into pattern based design using design patterns
C305.5	Understand the various testing methodologies for OO software.

OCE551 - Air Pollution and Control Engineering – [C306]

C306.1	Identify the sources of air pollution with its effects and ambient air quality standards & emission.
C306.2	Understanding the concept of lapse rates, Atmospheric stability, Plume rise and various other parameters on meteorology.
C306.3	Understanding the role of Gravity separators, Centrifugal separator, Fabric filters and ESP.
C306.4	Understanding the role of adsorption, absorption, condensation and incineration techniques.
C306.5	Ability to ensure quality control and preventive measures.

OCE552 - Geographic Information System – [C306]

C306.1	Have basic idea about the fundamentals of GIS.
C306.2	Understand the types of data models.
C306.3	Get knowledge about data input and topology.
C306.4	Gain knowledge on data quality and standards.
C306.5	Understand data management functions and data output

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EC8681 - Microprocessor and Microcontroller Lab – [C307]

C307.1	Write ALP for arithmetic and logical operations.
C307.2	Interface different I/O's with processor.
C307.3	Generate waveforms using Microprocessors.
C307.4	Execute programs in 8051.
C307.5	Familiar with 8086 and 8051 Simulators.

CS8582 - Object Oriented Analysis and Design Lab – [C308]

C308.1	Perform OO analysis and design for a given problem specification.
C308.2	Identify and map basic software requirements in UML mapping.
C308.3	Improve the software quality using design patterns and to explain the rationale behind applying specific design patterns.
C308.4	Test the compliance of the software with the SRS.

CS8581 - Networks Lab – [C309]

C309.1	Implement various protocols using TCP and UDP.
C309.2	Compare the performance of different transport layer protocols.
C309.3	Use simulation tools to analyze the performance of various network protocols.
C309.4	Analyze various routing algorithms.
C309.5	Implement error correction codes.

CS8651 - Internet Programming – [C310]

C310.1	Construct a basic website using HTML and Cascading Style Sheets.
C310.2	Build dynamic web page with validation using Java Script objects and by applying different event handling mechanisms.
C310.3	Develop server side programs using Servlets and JSP.
C310.4	Construct simple web pages in PHP and to represent data in XML format.
C310.5	Use AJAX and web services to develop interactive web applications.

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CS8691 - Artificial Intelligence – [C311]

C311.1	Use appropriate search algorithms for any AI problem.
C311.2	Represent a problem using first order and predicate logic.
C311.3	Provide the apt agent strategy to solve a given problem.
C311.4	Design software agents to solve a problem.
C311.5	Design applications for NLP that use Artificial Intelligence.

CS8601 - Mobile Computing – [C312]

C312.1	To understand the basic concepts of mobile computing.
C312.2	To learn the basics of mobile telecommunication system.
C312.3	To be familiar with the network layer protocols and Ad-Hoc networks.
C312.4	To know the basis of transport and application layer protocols.
C312.5	To gain knowledge about different mobile platforms and application development.

CS8602 - Compiler Design – [C313]

C313.1	Design lexical analyzer for a sample language.
C313.2	Apply different parsing algorithms to develop the parsers for a given grammar.
C313.3	Understand syntax-directed translation and generate intermediate code.
C313.4	Understand run-time environment and design simple code generator.
C313.5	Apply code optimization techniques.

CS8603 - Distributed System – [C314]

C314.1	Elucidate the foundations and issues of distributed systems.
C314.2	Understand the various synchronization issues and global state for distributed systems.
C314.3	Understand the Mutual Exclusion and Deadlock Detection algorithms in distributed systems.
C314.4	Describe the agreement protocols and fault tolerance mechanisms in distributed systems.
C314.5	Describe the features of peer-to-peer and distributed shared memory systems.

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IT8076 - Software Testing – [C315]

C315.1	Outline the software testing criteria for developing test cases.
C315.2	Build the test cases for software development.
C315.3	Understand the various level of testing.
C315.4	Discuss about the test metrics, measurements and management process.
C315.5	Illustrate the needs of software test automation and make use of the latest test tool for Testing.

CS8661 - Internet Programming Laboratory – [C316]

C316.1	Construct Web pages using HTML/XML and style sheets.
C316.2	Build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms.
C316.3	Develop dynamic web pages using server side scripting.
C316.4	Use PHP programming to develop web applications.
C316.5	Construct web applications using AJAX and web services.

CS8662 - Mobile Application Development Laboratory – [C317]

C317.1	To understand the components and structure of mobile application development frameworks for Android and windows OS based mobiles.
C317.2	To understand how to work with various mobile application development frameworks
C317.3	To learn the basic and important design concepts and issues of development of mobile applications.
C317.4	To understand the capabilities and limitations of mobile devices.
C317.5	To understand the components and structure of mobile application development frameworks for Android and windows OS based mobiles

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CS8611 - Mini Project – [C318]

C318.1	On Completion of the project work students will be in a position to take up any challenging practical problems and find solution by formulating proper methodology · Review the literature and develop solutions for framed problem statement. · Implement hardware and/or software techniques for identified problems. · Test and analyses the modules of planned project. · Write technical report and deliver presentation. · Apply engineering and management principles to achieve project goal.

HS8581 – Professional Communication – [C319]

C319.1	To enhance the students to make effective presentations.
C319.2	To help the students participate confidently in Group Discussions.
C319.3	To motivate and prepare the students to attend job interviews and be successful in their pursuit.
C319.4	To train and develop the adequate Soft Skills required for the workplace.
C319.5	Ability to interpret different genres of texts, infer implied meanings and evaluate it for ideas as well as for methods of presentation relevant in different situations.

MG8591 - Principles of Management – [C401]

C401.1	Define management and its evolution.
C401.2	Summarize the functions of planning.
C401.3	Summarize the functions of organising.
C401.4	Classify the various directing techniques.
C401.5	Identify the various control techniques.

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CS8792 - Cryptography and Network Security – [C402]

C402.1	Understand the fundamentals of networks security, security architecture, threats and vulnerabilities
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

CS8791 - Cloud Computing [C403]

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 and delivery models.
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.

OCY751 - Waste Water Treatment – [C404]

C404.1	Understand the physical, chemical and biological parameters of water and water quality requirement. Gain the knowledge about preliminary treatment
C404.2	Gain the knowledge about filtration , lime soda, zeolite and demineralization processes and – industrial water treatment for boilers.
C404.3	Understand the conventional treatment methods like adsorption , activated carbon treatment , iron and manganese removal ,aeration, oxidation, ion exchange.
C404.4	Gain the knowledge on wastewater treatment pre and primary treatment, equalization neutralization – screening and grid removal – sedimentation – oil separation gas stripping of volatile organics
C404.5	Will have knowledge about adsorption and oxidation process

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GE8077 - Total Quality Management – [C405]

C405.1	To select and apply appropriate techniques in identifying customer needs, as well as the quality impact that will be used as inputs in TQM methodologies
C405.2	Have a strategy to create and maintain a quality culture that will move the organization towards world-class status
C405.3	Understand the TQM concept and techniques for managing, controlling and improving quality at the workplace
C405.4	Knowing business excellence models and be able to assess organizations performance through data collection and analysis
C405.5	Have a strategy to implement total quality practices at the workplace and effect savings on the input cost of an organization

GE 8071 - Disaster Management – [C406]

C406.1	Understand and Differentiate the types of disasters, causes and their impact on environment and society.
C406.2	Analyse various methods of risk reduction measures as well as mitigation and assess the Vulnerability.
C406.3	Understand and examine the hazard and vulnerability profile of India.
C406.4	Value the Disaster damage assessment and recognize how to manage the Disaster.
C406.5	Construct ideas for the various disaster Scenarios in the Society.

CS8711 - Cloud Computing Lab [C407]

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.

IT8761 - Security Laboratory – [C408]

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

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GE8076 - Professional Ethics in Engineering [C409]

C409.1	The students be aware on human values for professional excellence and stress management.
C409.2	The students gain knowledge on engineering ethics, moral issues & uses of ethical theories.
C409.3	The students understand the role of engineers as responsible experimenters along with courses of ethics in engineering field .
C409.4	The students will be aware of responsibilities of an engineer for safety and risks along with risk benefit analysis.
C409.5	The students will acquire knowledge on global issues and able to apply ethical principles to resolve situations that arise in their professional lives.

CS8078 - Green Computing – [C410]

C410.1	To understand the concepts of technologies that conform to low-power computation.
C410.2	To understand green (power-efficient) technologies for components of one single computer, such as CPU, memory and disk, and appreciate cutting edge designs for these components.
C410.3	To have a basic understanding of a variety of technologies applied in building a green system and to identify the various key sustainability and green IT trends.
C410.4	To discuss the various laws, standards and protocols for regulating green IT.
C410.5	Be able to use a range of tools to help monitor and design green systems.

CS8811 - Project Work - [C411]

C411.1	On Completion of the project work students will be in a position to take up any challenging practical problems and find solution by formulating proper methodology. • Review the literature and develop solutions for framed problem statement. • Implement hardware and/or software techniques for identified problems. • Test and analyse the modules of planned project. • Write technical report and deliver presentation. • Apply engineering and management principles to achieve project goal.

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