

COURSE OUTCOME:

Regulation 2017

ME CSE

Semester I

Sub. code / Name	Course Outcome
MA5160 Probability and Statistics	<ol style="list-style-type: none">1. Basic probability axioms and rules and the moments of discrete and continuous random variables.2. Understand the functions of two dimensional random variable3. Consistency, efficiency and unbiasedness of estimators, method of maximum likelihood estimation and Central Limit Theorem.4. Use statistical tests in testing hypotheses on data.5. Perform exploratory analysis of multivariate data, such as multivariate normal density, calculating descriptive statistics, testing for multivariate normality.
CP5151 Advanced Data Structures and Algorithms	<ol style="list-style-type: none">1. Design data structures and algorithms to solve computing problems2. Understand the operation of hierarchical data structure3. Design algorithms using graph structure and various string matching algorithms to solve real-life problems4. Apply the various algorithm design techniques for real world problems5. Apply suitable design strategy for problem solving
CP5152 Advanced Computer Architecture	<ol style="list-style-type: none">1. Identify the limitations of ILP. Discuss the issues related to multiprocessing and suggest solutions2. Point out the salient features of different multicore architectures and how they exploit parallelism.3. Discuss the various techniques used for optimising the cache performance4. Design hierarchal memory system5. Point out how data level parallelism is exploited in architectures
CP5153 Operating Systems Internals	<ol style="list-style-type: none">1. To explain the functionality of a large software system by reading its source.2. Apply new algorithm for process scheduling3. revise any algorithm present in a system.4. To design a new algorithm to replace an existing one.5. To appropriately modify and use the data structures of the linux kernel for a different software system.
CP5154 Advanced Software	<ol style="list-style-type: none">1. Understand the advantages of various Software Development Lifecycle Models2. Gain knowledge on project management approaches as well as cost

Engineering	<p>and schedule estimation strategies</p> <ol style="list-style-type: none"> 3. Perform formal analysis on specifications and Use UML diagrams for analysis and design 4. Architect and design using architectural styles and design patterns 5. Understand software testing approaches and Understand the advantages of Develops practices
CP5191 Machine Learning Techniques	<ol style="list-style-type: none"> 1. Distinguish between, supervised, unsupervised and semi-supervised learning 2. Apply the appropriate machine learning strategy for any given problem 3. Suggest supervised, unsupervised or semi-supervised learning algorithms for any given problem 4. Design systems that uses the appropriate graph models of machine learning 5. Modify existing machine learning algorithms to improve classification efficiency
CP5161 Data Structures Lab	<ol style="list-style-type: none"> 1. Design and implement basic and advanced data structures extensively. 2. Design algorithms using graph structures 3. Design and develop efficient algorithms with minimum complexity using design techniques. 4. Design an algorithms for shortest path algorithms 5. Understand the usage of graph structures and spanning trees

Semester II

Sub. code / Name	Course Outcome
CP5201 Network Design and Technologies	<ol style="list-style-type: none"> 1. Identify the components required for designing a network 2. Design a network at a high-level using different networking technologies 3. Analyze the various protocols of wireless and cellular networks 4. Discuss the features of 4G and 5G networks 5. Experiment with software defined networks
CP5291 Security Practices	<ol style="list-style-type: none"> 1. Understand the core fundamentals of system security 2. Apply the security concepts related to networks in wired and wireless scenario 3. Implement and Manage the security essentials in IT Sector 4. Able to explain the concepts of Cyber Security and encryption Concepts 5. Able to attain a through knowledge in the area of Privacy and Storage security and related Issues.

CP5292 Internet of Things	<ol style="list-style-type: none"> 1. Analyze various protocols for IoT 2. Develop web services to access/control IoT devices. 3. Design a portable IoT using Rasperry Pi 4. Deploy an IoT application and connect to the cloud. 5. Analyze applications of IoT in real time scenario
CP5293 Big Data Analytics	<ol style="list-style-type: none"> 1. Understand how to leverage the insights from big data analytics 2. Analyze data by utilizing various statistical and data mining approaches 3. Perform analytics on real-time streaming data 4. Understand the Hadoop Framework concepts. 5. Understand the various NoSql alternative database models
CP5092 Cloud Computing Technologies	<ol style="list-style-type: none"> 1. Employ the concepts of storage virtualization, network virtualization and its management 2. Apply the concept of virtualization in the cloud computing 3. Identify the architecture, infrastructure and delivery models of cloud computing 4. Develop services using Cloud computing 5. Apply the security models in the cloud environment
CP5094 Information Retrieval Techniques	<ol style="list-style-type: none"> 1. understand the basics of information retrieval with pertinence to modeling, query operations and indexing 2. Build an Information Retrieval system using the available tools. 3. Identify and design the various components of an Information Retrieval system. 4. Apply machine learning techniques to text classification and clustering which is used for efficient Information Retrieval. 5. Design an efficient search engine and analyze the Web content structure.
CP5261 Data Analytics Lab	<ol style="list-style-type: none"> 1. Process big data using Hadoop framework 2. Build and apply linear and logistic regression models 3. Perform data analysis with machine learning methods 4. Perform various clustering techniques. 5. Perform graphical data analysis
CP5281 Term Paper Writing and Seminar	<ol style="list-style-type: none"> 1. Ability to develop their scientific and technical reading and writing skills 2. understand and construct research articles 3. ability to develop their surveying skill 4. Develop innovative ideas and present it in paper 5. Developing presentation skills

Semester III

Sub. code / Name	Course Outcome
CP5005 Software Quality Assurance	<ol style="list-style-type: none"> 1. Perform functional and non -functional tests in the life cycle of the software product. 2. Understand system testing and test execution process. 3. Identify defect prevention techniques and software quality assurance metrics. 4. Apply techniques of quality assurance for typical applications. 5. Identify standard certification and perform software testing.
CP5074 Social Network Analysis	<ol style="list-style-type: none"> 1. Work on the internals components of the social network. 2. Model and visualize the social network. 3. Mine the behaviour of the users in the social network. 4. Predict the possible next outcome of the social network. 5. Apply social network in real time applications.
CP5076 Information Storage Management	<ol style="list-style-type: none"> 1. Select from various storage technologies to suit for required application. 2. Apply security measures to safeguard storage & farm. 3. Analyse QoS on Storage. 4. Analyse and implement various storage management Technology. 5. Perform data centres methods for security.
CP5311 Project Work Phase I	<ol style="list-style-type: none"> 1. Identify the problem by applying acquired knowledge. 2. An ability to design, analyze the project 3. An ability to interpret the analyzed data 4. Design a System architecture for the project 5. Analyze and categorize executable project modules after considering risks.

Semester IV

Sub. code / Name	Course Outcome
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CP5411 Project Work Phase II	<ol style="list-style-type: none"> 1. Choose efficient tools for designing project modules. 2. Implementing the project using programming tools 3. Combine all the modules through effective team work after efficient testing. 4. Elaborate the completed task 5. An ability to compile the project report
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UG-B.E CSE

Reg 2013

Semester 1

Code	/ Subject name	Course Outcome
HS6151	Technical English – I	<ol style="list-style-type: none"> 1. To enable learners of Engineering and Technology develop their basic communication skills in English. 2. To emphasize specially the development of speaking skills amongst learners of Engineering and Technology. 3. To ensure that learners use the electronic media such as internet and supplement the learning materials used in the classroom. 4. To inculcate the habit of reading and writing leading to effective and efficient communication. 5. To Listen/view and comprehend different spoken discourses/excerpts in different accents.
MA6151	Mathematics – I	<ol style="list-style-type: none"> 1. To develop the use of matrix algebra techniques this is needed by engineers for practical applications. 2. To make the student knowledgeable in the area of infinite series and their convergence so that he/ she will be familiar with limitations of using infinite series approximations for solutions arising in mathematical modeling. 3. To familiarize the student with functions of several variables. This is needed in many branches of engineering. 4. To introduce the concepts of improper integrals, Gamma, Beta and Error functions which are needed in engineering applications. 5. To acquaint the student with mathematical tools needed in evaluating multiple integrals and their usage.
PH6151	Engineering Physics – I	<ol style="list-style-type: none"> 1. To enhance the fundamental knowledge in Physics and its applications relevant to various streams of Engineering and Technology. 2. To introduce the concepts of Thermal Physics. 3. To introduce the concepts of Quantum Physics.

		<ol style="list-style-type: none"> 4. To familiarize the basic knowledge about acoustics and ultrasonic. 5. To know about the basic concepts of Fiber Optic Communication System.
CY6151	Engineering Chemistry – I	<ol style="list-style-type: none"> 1. To make the students conversant with basics of polymer chemistry. 2. To make the student acquire sound knowledge of second law of thermodynamics and second law based derivations of importance in engineering applications in all disciplines. 3. To acquaint the student with concepts of important photophysical and photochemical processes and spectroscopy. 4. To develop an understanding of the basic concepts of phase rule and its applications to single and two component systems and appreciate the purpose and significance of alloys. 5. To acquaint the students with the basics of nano materials, their properties and applications.
GE6151	Computer Programming	<ol style="list-style-type: none"> 1. Learn the organization of a digital computer. Be exposed to the number systems. 2. Learn to think logically and write pseudo code or draw flow charts for problems. 3. Be exposed to the syntax of C. 4. Be familiar with programming in C. 5. Learn to use arrays, strings, functions, pointers, structures and unions in C.
GE6152	Engineering Graphics	<ol style="list-style-type: none"> 1. To develop in students, graphic skills for communication of concepts, ideas and design of Engineering products. 2. To expose them to existing national standards related to technical drawings. 3. Perform free hand sketching of basic geometrical constructions and multiple views of objects. 4. Do orthographic projection of lines and plane surfaces. 5. Draw projections and solids and development of surfaces. Prepare isometric and perspective sections of simple solids. Demonstrate computer aided drafting.
GE6161	Computer Practices Laboratory	<ol style="list-style-type: none"> 1. Be familiar with the use of Office software. 2. Be exposed to presentation and visualization tools. 3. Be exposed to problem solving techniques and flow charts. Be familiar with programming in C. 4. Learn to use Arrays, strings, functions, structures and unions. 5. Apply good programming design methods for program

		development. Design and implement C programs for simple applications.
GE6162	Engineering Practices Laboratory	<ol style="list-style-type: none"> 1. Ability to fabricate carpentry components and pipe connections including plumbing works. 2. Ability to use welding equipments to join the structures. 3. Ability to fabricate electrical and electronics circuits. 4. Make practice in soldering the electronics components. 5. Study of logic gates.
GE6163	Physics and Chemistry Laboratory - I	<ol style="list-style-type: none"> 1. The hands on exercises undergone by the students will help them to apply physics principles of optics and thermal physics to evaluate engineering properties of materials. 2. To make practical knowledge about handling optical fibre. 3. The students will be outfitted with hands-on knowledge in the quantitative chemical analysis of water quality related parameters. 4. Determine the strength of various acids. 5. Knowledge about PH value.

Semester 2

Code	/ Subject name	Course Outcome
HS6251	Technical English – II	<ol style="list-style-type: none"> 1. Speak convincingly, express their opinions clearly, initiate a discussion, negotiate, argue using appropriate communicative strategies. 2. Write effectively and persuasively and produce different types of writing such as narration, description, exposition and argument as well as creative, critical, analytical and evaluative writing. 3. Read different genres of texts, infer implied meanings and critically analyze and evaluate them for ideas as well as for method of presentation. 4. Listen/view and comprehend different spoken excerpts critically and infer unspoken and implied meanings. 5. To make practice with interactive grammar and vocabulary exercises.
MA6251	Mathematics – II	<ol style="list-style-type: none"> 1. The subject helps the students to develop the fundamentals and basic concepts in vector calculus, ODE, Laplace transform and complex functions.

		<ol style="list-style-type: none"> 2. Students will be able to solve problems related to engineering applications by using these techniques. 3. Student acquires sound knowledge of techniques in solving ordinary differential equations that model engineering problems. 4. Student with the concepts of vector calculus, needed for problems in all engineering disciplines. 5. Students appreciate which it is easier to handle the problem that is being investigated.
PH6251	Engineering Physics – II	<ol style="list-style-type: none"> 1. The students will have the knowledge on physics of materials and that knowledge will be used by them in different engineering and technology applications 2. To know the functionalities of Semiconductors. 3. To know the functionalities of Magnetic & Superconducting material 4. To know the functionalities of Dielectric material. 5. To understand about nanomaterials.
CY6251	Engineering Chemistry – II	<ol style="list-style-type: none"> 1. To make the students conversant with boiler feed water requirements, related problems and water treatment techniques. 2. Principles of electrochemical reactions, redox reactions in corrosion of materials and methods for corrosion prevention and protection of materials. 3. Principles and generation of energy in batteries, nuclear reactors, solar cells, wind mills and fuel cells. 4. Preparation, properties and applications of engineering materials. 5. Types of fuels, calorific value calculations, manufacture of solid, liquid and gaseous fuels
CS6201	Digital Principles and System Design	<ol style="list-style-type: none"> 1. Apply Arithmetic operations in any number system and various techniques to simplify the Boolean functions 2. Build Combinational Circuits that perform arithmetic operations & Code Conversions 3. Design Synchronous Sequential circuits. 4. Design Asynchronous Sequential circuits. 5. Model Memory arrays for any Boolean function
CS6202	Programming and Data Structures I	<ol style="list-style-type: none"> 1. Develop Programs using functions and Pointers. 2. Explain the File handling concept in C language 3. Discuss about the various Linear Data Structure Operations and applications using ADT 4. Explain the various algorithms for sorting and searching

		5. Demonstrate the indexing techniques in data structures
GE6262	Physics and Chemistry Laboratory - II	<ol style="list-style-type: none"> 1. To introduce different experiments to test basic understanding of physics concepts applied in optics, thermal physics and properties of matter. 2. The students will have the ability to test materials by using their knowledge of applied physics principles in optics and properties of matter. 3. To make the student acquire practical skills in the wet chemical and instrumental methods for quantitative estimation of hardness, alkalinity, metal ion content, corrosion in metals and cement analysis. 4. The students will be conversant with hands-on knowledge in the quantitative chemical analysis of water quality related parameters, corrosion measurement and cement analysis. 5. Estimating the chemical components using potentiometer.
CS6211	Digital Laboratory	<ol style="list-style-type: none"> 1. Understand the various logic gates. 2. Be familiar with various combinational circuits. 3. Learn to use HDL 4. Use Boolean simplification techniques to design a combinational hardware circuit. Design and Implement combinational and sequential circuits. 5. Analyze a given digital circuit – combinational and sequential.
CS6212	Programming and Data Structures Laboratory I	<ol style="list-style-type: none"> 1. Develop simple C Programs using pointers and Functions 2. Develop C program for Linear data structure operations and its applications 3. Experiment with File Manipulation concepts 4. Develop programs using various sorting algorithms 5. Develop programs using different searching methods

Semester 3

Code	Subject name	Course Outcome
MA6351	Transforms and Partial Differential Equations	<ol style="list-style-type: none"> 1. The understanding of the mathematical principles on transforms and partial differential equations would provide them the ability to formulate and solve some of the physical problems of engineering. 2. To introduce Fourier series analysis which is central to many applications in engineering

		<p>apart from its use in solving boundary value problems.</p> <ol style="list-style-type: none"> 3. To acquaint the student with Fourier transform techniques used in wide variety of situations. 4. To introduce the effective mathematical tools for the solutions of partial differential equations that model several physical processes and to develop Z transform techniques for discrete time systems. 5. Introduce about solutions of different equations.
CS6301	Programming and Data Structure II	<ol style="list-style-type: none"> 1. Design problem solutions using Object Oriented Techniques. 2. Apply the concepts of data abstraction, encapsulation and inheritance for problem solutions. Use the control structures of C++ appropriately. 3. Critically analyse the various algorithms. 4. Apply the different data structures to problem solutions.
CS6302	Database Management Systems	<ol style="list-style-type: none"> 1. Illustrate the database design for applications. 2. Make use of ER diagram and normalization techniques in database application 3. Apply concurrency control & recovery mechanism for database problems. 4. Apply the various concepts in query processing. 5. Compare various storage techniques in data mining.
CS6303	Computer Architecture	<ol style="list-style-type: none"> 1. Explain the computer organization components, instructions and addressing modes 2. Demonstrate arithmetic operations 3. Interpret the basic of MIPS implementation and pipelining 4. Outline the concept of parallelism and multi-core processor. 5. Classify the memory technologies and I/O systems
CS6304	Analog and Digital Communication	<ol style="list-style-type: none"> 1. Illustrate analog communication techniques 2. Explain digital communication techniques 3. Illustrate data and pulse communication techniques 4. Make use of various error control coding

		<p>techniques to identify/correct errors</p> <p>5. Outline multi-user radio communication</p>
GE6351	Environmental Science and Engineering	<ol style="list-style-type: none"> 1. Understand the values, threats and conservation of biodiversity and classify various Ecosystems. 2. Identify and implement technological and economical solution to environmental pollution 3. Develop the knowledge on various natural resources, their causes and their effects. 4. Explain various environmental acts and disaster management 5. Relate population and environment and the role of IT in environment and human health.
CS6311	Programming and Data Structure Laboratory II	<ol style="list-style-type: none"> 1. Select good programming design methods for program development. 2. Develop C++ programs for object oriented concepts. 3. Develop C++ programs for handling exceptions. 4. Develop C++ programs for practical problems using non-linear data structures. 5. Develop recursive programs using trees and graphs.
CS6312	Database Management Systems Laboratory	<ol style="list-style-type: none"> 1. Infer database language commands to create simple database 2. Analyze the database using queries to retrieve records 3. Applying PL/SQL for processing database 4. Analyze front end tools to design forms, reports and menus. 5. Develop solutions using database concepts for real time requirements.

Semester 4

Code	/ Subject name	Course Outcome
MA6453	Probability and Queueing Theory	<ol style="list-style-type: none"> 1. The students will have a fundamental knowledge of the probability concepts. 2. It also helps to understand and characterize phenomenon which evolve with respect to time in a probabilistic manner. 3. To provide the required mathematical support in real life problems and develop probabilistic models which can be used in several areas of

		<p>science and engineering.</p> <ol style="list-style-type: none"> 4. Acquire skills in analyzing queueing models. 5. To study about advance Queueing models.
CS6551	Computer Networks	<ol style="list-style-type: none"> 1. Explain the components requirement of networks and link layer service 2. Classify the Media Access Control Protocols and different Internetworking 3. Demonstrate various types of routing techniques 4. Outline the mechanisms involved in transport layer 5. Experiment with different application layer protocols
CS6401	Operating Systems	<ol style="list-style-type: none"> 1. Explain the basic concepts and functions of Operating Systems 2. Outline various threading models, process synchronization and deadlocks 3. Compare the performance of various CPU scheduling algorithms 4. Compare and contrast various memory management schemes 5. Explain I/O management and file systems
CS6402	Design and Analysis of Algorithms	<ol style="list-style-type: none"> 1. Interpret the fundamental needs of algorithms in problem solving 2. Classify the different algorithm design techniques for problem solving 3. Develop algorithms for various computing problems 4. Analyze the time and space complexity of various algorithms 5. Identify the limitations of algorithms in problem solving
EC6504	Microprocessor and Microcontroller	<ol style="list-style-type: none"> 1. Explain about the architecture of microprocessor and microcontroller 2. Demonstrate the programs on 8086 microprocessor 3. Illustrate the Bus structure and communication of microprocessor 4. Illustrate the design aspects of I/O and memory interfacing circuits 5. Develop a simple microcontroller based systems
CS6403	Software Engineering	<ol style="list-style-type: none"> 1. Explain the software engineering process and project management

		<ol style="list-style-type: none"> 2. Demonstrate software requirements and analysis 3. Outline the software design process and user interface 4. Compare and contrast various software testing 5. Discuss about the software integration and project management
CS6411	Networks Laboratory	<ol style="list-style-type: none"> 1. Demonstrate the socket program using TCP & UDP 2. Develop simple applications using TCP & UDP 3. Develop the code for Data link layer protocol simulation 4. Examine the performances of Routing protocol 5. Experiment with congestion control algorithm using network simulator.
CS6412	Microprocessor and Microcontroller Laboratory	<ol style="list-style-type: none"> 1. Develop ALP for fixed and Floating Point and Arithmetic operations using 8086 microprocessor. 2. Make use of different I/O interfacing with 8086 microprocessor 3. Construct different waveforms using 8086 microprocessor 4. Model serial and parallel interfacing of 8086 microprocessor 5. Develop assembly language programs for various applications using 8051 microcontroller
CS6413	Operating Systems Laboratory	<ol style="list-style-type: none"> 1. Experiment with Unix commands and shell programming 2. Build 'C' program for process and file system management using system calls 3. Choose the best CPU scheduling algorithm for a given problem instance 4. Identify the performance of various page replacement algorithms 5. Develop algorithm for deadlock avoidance, detection and file allocation strategies

Semester 5

Code	/ Subject name	Course Outcome
MA6566	Discrete Mathematics	<ol style="list-style-type: none"> 1. Have knowledge of the concepts needed to test

		<p>the logic of a program.</p> <ol style="list-style-type: none"> 2. Have an understanding in identifying structures on many levels. 3. Be aware of a class of functions which transform a finite set into another finite set which relates to input and output functions in computer science. 4. Be aware of the counting principles. 5. Be exposed to concepts and properties of algebraic structures such as groups, rings and fields.
CS6501	Internet Programming	<ol style="list-style-type: none"> 1. Explain the concepts of Control Statements, I/O Applet and Threading 2. Develop a basic website using HTML and Cascading Style Sheets 3. Compare and contrast the Java Script programming for client and server along with its event handling mechanisms 4. Build a simple web page in PHP with XML data format 5. Explain web services and client presentation using AJAX
CS6502	Object Oriented Analysis and Design	<ol style="list-style-type: none"> 1. Explain OOAD concepts and various UML diagrams 2. Select an appropriate design pattern 3. Illustrate about domain models and conceptual classes 4. Compare and contrast various testing techniques 5. Construct projects using UML diagrams
CS6503	Theory of Computation	<ol style="list-style-type: none"> 1. Outline the concept of Finite Automata and Regular Expression 2. Illustrate the design of Context Free Grammar for any language set 3. Demonstrate the push down automaton model for the given language 4. Make use of Turing machine concept to solve the simple problems 5. Explain decidability or undecidability of various problems
CS6504	Computer Graphics	<ol style="list-style-type: none"> 1. Explain the various output primitives and graphics systems. 2. Discuss various 2D transformations, viewing and clipping techniques. 3. Explain the 3D objects and projections.

		<ol style="list-style-type: none"> 4. Explain basic illumination and colour models. 5. Discuss various animation sequences and graphics realism.
CS6511	Case Tools Laboratory	<ol style="list-style-type: none"> 1. Students will be able to develop a problem statement. 2. Students will be able to develop an IEEE standard SRS document. 3. Understand and Identify Use Cases and develop the Use Case model. 4. Understand and Identify the business activities and develop an UML Activity diagram. 5. Understand and identify the conceptual classes and develop a domain model with UML Class Diagram.
CS6512	Internet Programming Laboratory	<ol style="list-style-type: none"> 1. Design Web pages using HTML/XML and style sheets 2. Create user interfaces using Java frames and applets. 3. Create dynamic web pages using server side scripting. 4. Write Client Server applications. 5. Use the frameworks JSP Strut, Hibernate, Spring
CS6513	Computer Graphics Laboratory	<ol style="list-style-type: none"> 1. Make use of algorithms to draw 2D and 3D objects 2. Show transformations and projections for 2D and 3D objects 3. Manipulate a graphical object using clipping algorithms and viewing technique 4. Use an image editing tool for image anipulation and enhancement. 5. Utilize the authoring tool to develop a 3D scene and to perform 2D animation

Semester 6

Code	/ Subject name	Course Outcome
CS6601	Distributed Systems	<ol style="list-style-type: none"> 1. Explain the distributed systems architecture. 2. Outline the inter process communication in distributed systems. 3. Explain the file accessing model and various services in distributed system. 4. Demonstrate concurrency control and properties of transaction in Distributed

		<p>systems.</p> <p>5. Discuss resource and process management in distributed system</p>
IT6601	Mobile Computing	<ol style="list-style-type: none"> 1. Explain the basics of mobile Computing 2. Describe the functionality of Mobile IP and Transport Layer 3. Classify different types of mobile telecommunication systems 4. Demonstrate the Adhoc networks concepts and its routing protocols 5. Make use of mobile operating systems in developing mobile applications
CS6660	Compiler Design	<ol style="list-style-type: none"> 1. Explain the phases of a Compiler 2. Illustrate the translation of regular expression into parse tree using syntax analyzer 3. Construct the intermediate representation considering the type systems 4. Apply the optimization techniques for the generated code 5. Use the different compiler construction tools to develop a simple compiler
IT6502	Digital Signal Processing	<p>Demonstrate the analytical representation of discrete-time signals</p> <p>Illustrate the properties of systems and signals</p> <p>Make use of the Transform domain concepts in computational complexity problems</p> <p>Construct IIR and FIR filters for the given specifications.</p> <p>Explain finite word length effects in digital filters.</p>
CS6659	Artificial Intelligence	<ol style="list-style-type: none"> 1. Identify problems that are amenable to solution by AI methods. 2. Recognize appropriate AI methods to solve a given problem. 3. Discuss a given problem in the language/framework of different AI methods. 4. Develop basic AI algorithms. 5. Model an empirical evaluation of different algorithms on a problem for mail, and state the conclusions that the evaluation supports.
IT6702	Data Warehousing and Data Mining	<ol style="list-style-type: none"> 1. Be familiar with the concepts of data warehouse and data mining, 2. Be acquainted with the tools and techniques used for Knowledge Discovery in Databases.

		<ol style="list-style-type: none"> 3. Apply data mining techniques and methods to large data sets. 4. Use data mining tools 5. Compare and contrast the various classifiers.
CS6611	Mobile Application Development Laboratory	<ol style="list-style-type: none"> 1. Build a native application using GUI components and Mobile application development framework 2. Develop an application using basic graphical primitives and databases 3. Construct an application using multi threading and RSS feed 4. Make use of location identification using GPS in an application 5. Model new applications to hand held devices
CS6612	Compiler Laboratory	<ol style="list-style-type: none"> 1. Apply different compiler writing tools to implement the different Phases 2. Analyze the data flow and control flow 3. Construct the intermediate representation 4. Design the back end of a compiler for 8086 assembler 5. Compare various code optimization techniques
GE6674	Communication and Soft Skills – Laboratory Based	<ol style="list-style-type: none"> 1. Take international examination such as IELTS and TOEFL. 2. Make presentations and Participate in Group Discussions. Successfully answer questions in interviews. 3. To enable learners to develop their communicative competence. 4. To facilitate them to hone their soft skills. 5. To equip them with employability skills to enhance their prospect of placements.

Semester 7

Code	/ Subject name	Course Outcome
CS6701	Cryptography and Network Security	<ol style="list-style-type: none"> 1. Explain the basics of number theory and compare various encryption techniques. 2. Summarize the functionality of public key cryptography. 3. Apply various message authentication functions and secure algorithms.

		<ol style="list-style-type: none"> 4. Demonstrate different types of security systems and applications. 5. Discuss different levels of security and services.
CS6702	Graph Theory and Applications	<ol style="list-style-type: none"> 1. Classify precise and accurate mathematical definitions of objects in graph theory. 2. Illustrate fundamentals of circuits, cutsets, network flows & graph. 3. Discuss about chromatic characteristics and directed graph. 4. Outline Permutations and Combinations with generating function. 5. Make use of theoretical knowledge and independent mathematical thinking in graph theory questions' investigation.
CS6703	Grid and Cloud Computing	<ol style="list-style-type: none"> 1. Outline the concept of Grid and Cloud Architectures. 2. Illustrate the data intensive grid service models and grid computing techniques 3. Demonstrate the concept of virtualization in cloud. 4. Experiment with the programming model for Hadoop and globus toolkit. 5. Interpret the security models in the grid and cloud environment.
CS6704	Resource Management Techniques	<ol style="list-style-type: none"> 1. Make use of simplex method to solve optimization problems. 2. Demonstrate the concept of duality to solve Shortest route problem 3. Explain integer programming method. 4. Demonstrate the types of constraints and optimization methods. 5. Utilize PERT and CPM in project management.
CS6005	Advanced Database Systems	<ol style="list-style-type: none"> 1. Design different types of databases. Use query languages. 2. Apply indexing techniques. 3. Learn different types of databases. 4. Be exposed to query languages. 5. Be familiar with the indexing techniques.
IT6007	Information Retrieval	<ol style="list-style-type: none"> 1. Apply information retrieval models. 2. Design Web Search Engine. 3. Use Link Analysis.

		<ol style="list-style-type: none"> 4. Use Hadoop and Map Reduce. 5. Apply document text mining techniques.
CS6711	Security Laboratory	<ol style="list-style-type: none"> 1. Apply the cryptographic algorithms for data communication 2. Compare the performance of various security algorithms 3. Apply the Digital signature for secure data transmission 4. Utilize the different open source tools for network security and analysis 5. Demonstrate intrusion detection system using network security tool.
CS6712	Grid and Cloud Computing Laboratory	<ol style="list-style-type: none"> 1. Make use of the Grid Toolkit. 2. Design and Implement new Grid applications Grid. 3. Make use of the Cloud Toolkit. 4. Build cloud applications on Cloud. 5. Construct the applications according to the services.

Semester 8

Code	/ Subject name	Course Outcome
CS6801	Multi – Core Architectures and Programming	<ol style="list-style-type: none"> 1. Program Parallel Processors. 2. Develop programs using OpenMP and MPI. 3. Compare and contrast programming for serial processors and programming for parallel processors. 4. Understand the challenges in parallel and multi-threaded programming. 5. Learn about the various parallel programming paradigms, and solutions.
CS6008	Human Computer Interaction	<ol style="list-style-type: none"> 1. Design effective dialog for HCI 2. Design effective HCI for individuals and persons with disabilities 3. Assess importance of user feedback 4. Explain the HCI implications for designing Multimedia / e-commerce /e-learning websites 5. Develop meaningful user interface

MG6088	Software Project Management	<ol style="list-style-type: none"> 1. To practice Project Management principles while developing a software. 2. To outline the need for Software Project Management 3. To highlight different techniques for software cost estimation and activity planning. 4. Introduction about activity planning. 5. To make knowledge about project configuration management.
IT6011	Knowledge Management	<ol style="list-style-type: none"> 1. Understand the evolution and ethics of knowledge management 2. Understand the creating the culture of learning and knowledge sharing 3. Use the knowledge management tools. 4. Develop knowledge management Applications. 5. Design and develop enterprise applications
CS6811	Project Work	<ol style="list-style-type: none"> 1. Identify the problem by applying acquired knowledge. 2. Analyze and categorize executable project modules after considering risks. 3. Choose efficient tools for designing project modules. 4. Combine all the modules through effective team work after efficient testing. 5. Elaborate the completed task and compile the project report.

UG: B.E-CSE
Regulation 2017
Semester 1

Sub. code / Name	Course Outcome
HS8151 Communicative English	<ol style="list-style-type: none"> 1. Read articles of a general kind in magazines and newspapers. 2. Participate effectively in informal conversations; 3. Introduce themselves and their friends and express opinions in English. 4. Comprehend conversations and short talks delivered in English

	<ol style="list-style-type: none"> Write short essays of a general kind and personal letters and emails in English.
MA8151 Engineering Mathematics 1	<ol style="list-style-type: none"> Use both the limit definition and rules of differentiation to differentiate functions. Apply differentiation to solve maxima and minima problems. Evaluate integrals both by using Riemann sums and by using the Fundamental Theorem of Calculus. Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables. Evaluate integrals using techniques of integration, such as substitution, partial fractions and integration by parts. Determine convergence/divergence of improper integrals and evaluate convergent improper integrals. Apply various techniques in solving differential equations.
PH8151 Engineering Physics	<ol style="list-style-type: none"> The students will gain knowledge on the basics of properties of matter and its applications, The students will acquire knowledge on the concepts of waves and optical devices and their applications in fibre optics, The students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers, The students will get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes, and The students will understand the basics of crystals, their structures and different crystal growth techniques.
CY8151 Engineering Chemistry	<ol style="list-style-type: none"> The knowledge gained on engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning. The students will gain an understanding of oxidation and reduction reactions as they relate to engineering applications, such as corrosion. The Students will learn to balance chemical equations, using proper nomenclature. The Students will perform laboratory experiments related to solubility and pK. The Students will perform laboratory experiments in electrochemist.
GE8151 Problem Solving Python And	<ol style="list-style-type: none"> Develop algorithmic solutions to simple computational problems Read, write, execute by hand simple Python programs. Structure simple Python programs for solving problems. And Decompose a Python program into functions. Represent compound data using Python lists, tuples, dictionaries.

Programming	5. Read and write data from/to files in Python Programs.
GE8152 Engineering Graphics	<ol style="list-style-type: none"> 1. Familiarize with the fundamentals and standards of Engineering graphics 2. Perform freehand sketching of basic geometrical constructions and multiple views of objects. 3. Project orthographic projections of lines and plane surfaces. 4. Draw projections and solids and development of surfaces. 5. Visualize and to project isometric and perspective sections of simple solids.
GE8161 Problem Solving And Python Programming Laboratory	<ol style="list-style-type: none"> 1. Write, test, and debug simple Python programs. 2. Implement Python programs with conditionals and loops. 3. Develop Python programs step-wise by defining functions and calling them. 4. Use Python lists, tuples, dictionaries for representing compound data. 5. Read and write data from/to files in Python.
BS8161 Physics And Chemistry Laboratory	<ol style="list-style-type: none"> 1. Apply principles of elasticity, optics and thermal properties for engineering applications 2. The correct number of significant figures in a measurement or in the results of a computation. 3. Effectively use vernier calipers, various rules, meters, scales and other measuring devices to acquire measurements within the stated precision. 4. The students will be outfitted with hands-on knowledge in the quantitative chemical analysis of water quality related parameters. 5. Determine various determinations and estimations of chemical contents in water.

Semester II

Sub. code / Name	Course Outcome
HS8251 Technical English	<ol style="list-style-type: none"> 1. Read technical texts and write area- specific texts effortlessly. 2. Listen and comprehend lectures and talks in their area of specialisation successfully. 3. Speak appropriately and effectively in varied formal and informal contexts. 4. Write reports and winning job applications. 5. To develop aural competence and oral fluency of learners.
MA8251 Engineering Mathematics –	<ol style="list-style-type: none"> 1. Eigen values and eigenvectors, diagonalization of a matrix, Symmetric matrices, Positive definite matrices and similar matrices. 2. Gradient, divergence and curl of a vector point function and related

II	<p>identities.</p> <ol style="list-style-type: none"> 3. Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification. 4. Analytic functions, conformal mapping and complex integration. 5. Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.
PH8252 Physics For Information Science	<ol style="list-style-type: none"> 1. Gain knowledge on classical and quantum electron theories, and energy band structures, 2. Acquire knowledge on basics of semiconductor physics and its applications in various devices, 3. Get knowledge on magnetic properties of materials and their applications in data storage, 4. Have the necessary understanding on the functioning of optical materials for optoelectronics, 5. Understand the basics of quantum structures and their applications in carbon electronics..
BE8255 Basic Electrical, Electronics And Measurement Engineering	<ol style="list-style-type: none"> 1. Discuss the essentials of electric circuits and analysis. 2. Discuss the basic operation of electric machines and transformers 3. Introduction of renewable sources and common domestic loads. 4. Introduction to measurement and metering for electric circuits 5. The Students will understand the principles and operation of measuring instruments and transducers
GE8291 Environmental Science And Engineering	<ol style="list-style-type: none"> 1. Environmental Pollution or problems cannot be solved by mere laws. 2. Public participation is an important aspect which serves the environmental Protection. 3. Public awareness of environmental is at infant stage. 4. Ignorance and incomplete knowledge has lead to misconceptions 5. Development and improvement in std. of living has lead to serious environmental disasters
CS8251 Programming In C	<ol style="list-style-type: none"> 1. Develop simple applications in C using basic constructs 2. Design and implement applications using arrays and strings 3. Develop and implement applications in C using functions and pointers. 4. Develop applications in C using structures. 5. Design applications using sequential and random access file processing
GE8261 Engineering Practices Laboratory	<ol style="list-style-type: none"> 1. Fabricate carpentry components and pipe connections including plumbing works. Use welding equipments to join the structures. 2. Carry out the basic machining operations 3. Make the models using sheet metal works Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and fittings

	<ol style="list-style-type: none"> 4. Carry out basic home electrical works and appliances Measure the electrical quantities 5. Elaborate on the components, gates, soldering practices.
CS8261 C Programming Laboratory	<ol style="list-style-type: none"> 1. Develop C programs for simple applications making use of basic constructs 2. Develop C programs for simple applications making use of arrays and strings 3. Develop C programs involving functions, and recursion, 4. Develop C programs involving pointers, and structures. 5. Design applications using sequential and random access file processing

Semester III

Sub. code / Name	Course Outcome
MA8351 Discrete Mathematics	<ol style="list-style-type: none"> 1. Have knowledge of the concepts needed to test the logic of a program. 2. Have an understanding in identifying structures on many levels. 3. Be aware of a class of functions which transform a finite set into another finite set which relates to input and output functions in computer science. 4. Be aware of the counting principles. 5. Be exposed to concepts and properties of algebraic structures such as groups, rings and fields.
CS8351 Digital Principles And System Design	<ol style="list-style-type: none"> 1. Simplify Boolean functions using KMap 2. Design and Analyze Combinational and Sequential Circuits 3. Implement designs using Programmable Logic Devices 4. Write HDL code for combinational and Sequential Circuits 5. Design and implementation of application using Multiplexers/ Demultiplexers
CS8391 Data Structures	<ol style="list-style-type: none"> 1. Be familiar with basic techniques of algorithm analysis 2. Implement abstract data types for linear data structures. 3. Be familiar with advanced data structures such as balanced search trees 4. Apply the different linear and non-linear data structures to problem solutions. 5. Critically analyze the various sorting algorithms
CS8392 Object Oriented Programming	<ol style="list-style-type: none"> 1. Develop Java Programs using OOP Principles 2. Develop Java Programs with the concepts inheritance and interfaces 3. Build java applications using exceptions and I/O Streams 4. Develop java applications with threads and generic classes.

	5. Develop java interactive Java programs using swings
EC8395 Communication Engineering	<ol style="list-style-type: none"> 1. Ability to comprehend and appreciate the significance and role of this course in the present contemporary world 2. Apply analog and digital communication techniques. 3. Use data and pulse communication techniques. 4. Analyze Source and Error control coding. 5. Learn the types of secured communication and multiple access techniques in wireless communication
CS8381 Data Structures Laboratory	<ol style="list-style-type: none"> 1. Write functions to implement linear and non-linear data structure operations 2. Suggest appropriate linear / non-linear data structure operations for solving a given problem 3. Appropriately use the linear / non-linear data structure operations for a given problem 4. Apply appropriate hash functions that result in a collision free scenario for data storage and retrieval 5. Familiarize to sorting and searching algorithms
CS8383 Object Oriented Programming Laboratory	<ol style="list-style-type: none"> 1. Develop and implement Java programs for simple applications that make use of classes, packages and interfaces. 2. Develop and implement Java programs with arraylist. 3. Develop and implement Java programs with exception handling and multithreading 4. Design applications using file processing, 5. Design applications using generic programming and event handling
CS8382 Digital Systems Laboratory	<ol style="list-style-type: none"> 1. Implement simplified combinational circuits using basic logic gates 2. Implement combinational circuits using MSI devices 3. Implement sequential circuits like registers and counters 4. Simulate combinational and sequential circuits using HDL 5. Design and implementation of 4-bit binary adder / subtractor
HS8381 Interpersonal Skills/Listening &Speaking	<ol style="list-style-type: none"> 1. Listen and respond appropriately. 2. Participate in group discussions 3. Make effective presentations 4. Participate confidently and appropriately in conversations both formal and informal 5. Improve general and academic listening skills

Semester IV

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MA8402 Probability And Queuing Theory	<ol style="list-style-type: none"> 1. Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon. 2. Understand the basic concepts of one and two dimensional random variables and apply in engineering applications. 3. Apply the concept of random processes in engineering disciplines. 4. Acquire skills in analyzing queueing models. 5. Understand and characterize phenomenon which evolve with respect to time in a probabilistic manner
CS8491 Computer Architecture	<ol style="list-style-type: none"> 1. Understand the basics structure of computers, operations and instructions. 2. Design arithmetic and logic unit. 3. Understand pipelined execution and design control unit. 4. Understand parallel processing architectures. 5. Understand the various memory systems and I/O communication.
CS8492 Database Management Systems	<ol style="list-style-type: none"> 1. Classify the modern and futuristic database applications based on size and complexity 2. Map ER model to Relational model to perform database design effectively 3. Write queries using normalization criteria and optimize queries 4. Compare and contrast various indexing strategies in different database systems 5. Appraise how advanced databases differ from traditional databases.
CS8451 Design And Analysis Of Algorithms	<ol style="list-style-type: none"> 1. Design algorithms for various computing problems. 2. Analyze the time and space complexity of algorithms. 3. Critically analyze the different algorithm design techniques for a given problem. 4. Modify existing algorithms to improve efficiency 5. Understand and apply the algorithm analysis techniques
CS8493 Operating Systems	<ol style="list-style-type: none"> 1. Analyze various scheduling algorithms. And understand deadlock, prevention and avoidance algorithms. 2. Compare and contrast various memory management schemes. 3. Understand the functionality of file systems. 4. Perform administrative tasks on Linux Servers. 5. Compare iOS and Android Operating Systems
CS8494 Software Engineering	<ol style="list-style-type: none"> 1. Identify the key activities in managing a software project. 2. Compare different process models. 3. Concepts of requirements engineering and Analysis Modeling. 4. Apply systematic procedure for software design and deployment. 5. Compare and contrast the various testing and maintenance. And Manage project schedule, estimate project cost and effort required

CS8481 Database Management Systems Laboratory	<ol style="list-style-type: none"> 1. Use typical data definitions and manipulation commands. 2. Design applications to test Nested and Join Queries 3. Implement simple applications that use Views 4. Implement applications that require a Front-end Tool 5. Critically analyze the use of Tables, Views, Functions and Procedures
CS8461 Operating Systems Laboratory	<ol style="list-style-type: none"> 1. Compare the performance of various CPU Scheduling Algorithms 2. Implement Deadlock avoidance and Detection Algorithms 3. Implement Semaphores and Create processes, implement IPC 4. Analyze the performance of the various Page Replacement Algorithms 5. Implement File Organization and File Allocation Strategies
HS8461 Advanced Reading And Writing	<ol style="list-style-type: none"> 1. Write different types of essays. 2. Write winning job applications. 3. Read and evaluate texts critically. 4. Display critical thinking in various professional contexts 5. Develop their project and proposal writing skills

Semester V

Sub. code / Name	Course Outcome
MA8551 Algebra and Number Theory	<ol style="list-style-type: none"> 1. Apply the basic notions of groups, rings, fields which will then be used to solve related problems. 2. Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts. 3. Demonstrate accurate and efficient use of advanced algebraic techniques. 4. Demonstrate their mastery by solving non - trivial problems related to the concepts, and by proving simple theorems about the, statements proven by the text. 5. Apply integrated approach to number theory and abstract algebra, and provide a firm basis for further reading and study in the subject.
CS8591 Computer Networks	<ol style="list-style-type: none"> 1. Understand the basic layers and its functions in computer networks. And Evaluate the performance of a network. 2. Understand the basics of how data flows from one node to another. 3. Analyze and design routing algorithms. 4. Design protocols for various functions in the network. 5. Understand the working of various application layer protocols.
EC8691 Microprocessor and	<ol style="list-style-type: none"> 1. Understand and execute programs based on 8086 microprocessor. 2. Understand the multiprogramming and multiprocessor configurations 3. Design Memory Interfacing circuits.

Microcontrollers	<ol style="list-style-type: none"> Design and interface I/O circuits. Design and implement 8051 microcontroller based systems.
CS8501 Theory of Computation	<ol style="list-style-type: none"> Construct automata, regular expression for any pattern. Write Context free grammar for any construct. Design Turing machines for any language. Propose computation solutions using Turing machines. Derive whether a problem is decidable or not.
CS8592 Object Oriented Analysis and Design	<ol style="list-style-type: none"> Express software design with UML diagrams Design software applications using OO concepts. Identify various scenarios based on software requirements Transform UML based software design into pattern based design using design patterns Understand the various testing methodologies for OO software
OMD553 Telehealth Technology	<ol style="list-style-type: none"> Understand the ethical and legal aspects of telemedicine Apply multimedia technologies in telemedicine. Explain Protocols behind encryption techniques for secure transmission of data. Understand the mobile telemedicine and teleradiology Apply telehealth in healthcare.
EC8681 Microprocessor and Microcontroller lab	<ol style="list-style-type: none"> Write ALP Programmes for fixed and Floating Point and Arithmetic operations Interface different I/Os with processor Generate waveforms using Microprocessors Execute Programs in 8051 Explain the difference between simulator and Emulator
CS8582 Object Oriented Analysis and design Lab	<ol style="list-style-type: none"> Perform OO analysis and design for a given problem specification. Identify and map basic software requirements in UML mapping. Improve the software quality using design patterns Explain the rationale behind applying specific design patterns Test the compliance of the software with the SRS.
CS8581 Networks Lab	<ol style="list-style-type: none"> Implement various protocols using TCP and UDP. Compare the performance of different transport layer protocols. Use simulation tools to analyze the performance of various network protocols. Analyze various routing algorithms. Implement error correction codes.

Semester VI

Sub. code / Name	Course Outcome
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<p>CS8651 Internet Programming</p>	<ol style="list-style-type: none"> 1. Construct a basic website using HTML and Cascading Style Sheets. 2. Build dynamic web page with validation using Java Script objects and by applying different event handling mechanisms. 3. Develop server side programs using Servlets and JSP. 4. Construct simple web pages in PHP and to represent data in XML format. 5. Use AJAX and web services to develop interactive web applications
<p>CS8691 Artificial Intelligence</p>	<ol style="list-style-type: none"> 1. Use appropriate search algorithms for any AI problem 2. Represent a problem using first order and predicate logic 3. Provide the apt agent strategy to solve a given problem 4. Design software agents to solve a problem 5. Design applications for NLP that use Artificial Intelligence.
<p>CS8601 Mobile Computing</p>	<ol style="list-style-type: none"> 1. Explain the basics of mobile telecommunication systems 2. Illustrate the generations of telecommunication systems in wireless networks 3. Determine the functionality of MAC, network layer and Identify a routing protocol for a given Ad hoc network 4. Explain the functionality of Transport and Application layers 5. Develop a mobile application using android/blackberry/ios/Windows SDK
<p>CS8602 Compiler Design</p>	<ol style="list-style-type: none"> 1. Understand the different phases of compiler and Design a lexical analyzer for a sample language. 2. Apply different parsing algorithms to develop the parsers for a given grammar. 3. Understand syntax-directed translation and run-time environment. 4. Learn to implement code optimization techniques and a simple code generator. 5. Design and implement a scanner and a parser using LEX and YACC tools.
<p>CS8603 Distributed Systems</p>	<ol style="list-style-type: none"> 1. Elucidate the foundations and issues of distributed systems 2. Understand the various synchronization issues and global state for distributed systems. 3. Understand the Mutual Exclusion and Deadlock detection algorithms in distributed systems 4. Describe the agreement protocols and fault tolerance mechanisms in distributed systems. 5. Describe the features of peer-to-peer and distributed shared memory systems
<p>CS8075 Datawarehousein</p>	<ol style="list-style-type: none"> 1. Design a Data warehouse system and perform business analysis with OLAP tools.

g and Data Mining	<ol style="list-style-type: none"> 2. Apply suitable pre-processing and visualization techniques for data analysis 3. Apply frequent pattern and association rule mining techniques for data analysis 4. Apply appropriate classification and clustering techniques for data analysis 5. Apply weka tool for different datasets.
CS8661 Internet Programming Lab	<ol style="list-style-type: none"> 1. Construct Web pages using HTML/XML and style sheets. 2. Build dynamic web pages with validation using Java Script objects and by applying different event handling mechanisms. 3. Develop dynamic web pages using server side scripting. 4. Use PHP programming to develop web applications. 5. Construct web applications using AJAX and web services.
CS8662 Mobile Application Development Lab	<ol style="list-style-type: none"> 1. Develop mobile applications using GUI and Layouts. 2. Develop mobile applications using Event Listener. 3. Develop mobile applications using Databases. 4. Develop mobile applications using RSS Feed, Internal/External Storage, SMS, Multi-threading and GPS. 5. Analyze and discover own mobile app for simple needs.
CS8611 Mini Project	<ol style="list-style-type: none"> 1. Identify the problem by applying acquired knowledge. 2. Analyze and categorize executable project modules after considering risks. 3. Choose efficient tools for designing project modules. 4. Combine all the modules through effective team work after efficient testing. 5. Elaborate the completed task and compile the project report.
HS8581 Professional Communication	<ol style="list-style-type: none"> 1. Make effective presentations 2. Participate confidently in Group Discussions. 3. Attend job interviews and be successful in them. 4. Develop adequate Soft Skills required for the workplace