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Periyanaickenpalayam, Coimbatore – 641020
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DEPARTMENT OF COMPUTER SCIENCE
CO –PO – PSO MAPPING

REGULATION:2017 **SEM:I**

S.NO	SUBJECT CODE/ NAME	COURSE CREDIT	COURSE CODE	COs	COURSE OUTCOMES	PROGRAMME OUTCOME(PO)												PSO		
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	HS8151/ COMMUNICATIVE ENGLISH	4	C101	C101.1	Read articles of a general kind in Magazines and newspapers.								√	√	√		√			
				C101.2	Participate effectively in informal conversations; introduce themselves and their friends and express opinions in English.								√	√	√		√			
				C101.3	Comprehend conversations and short Talks delivered in English								√	√	√		√			
				C101.4	Write short essays of a general kind and Personal letters and emails in English.								√	√	√		√			
				C101.5	Enchance speaking skills and speak fluently in real context and develop vocabulary of a general kind by enriching their reading skills.								√	√	√		√			
2	MA8151/ Engineering Mathematics-I	4	C102	C102.1	Make use of both the limit definition and rules of differentiation to differentiate functions.	√	√	√	√							√	√			
				C102.2	Apply partial differentiation to solve maxima and minima problems.	√	√	√	√							√	√			
				C102.3	Evaluate integrals both by using Reimann sums and by using the fundamental theorem of calculus and Determine the convergence /divergence of improper integrals and evaluate convergent improper integrals. Evaluate integrals using techniques of integration, such as substitution, partial Fractions, integration by parts and improper integrals.	√	√	√	√							√	√			
				C102.4	Apply integration to compute multiple integrals, area, volume, integrals in polar coordinates, in addition to change of order and change of variables.	√	√	√	√							√	√			
				C102.5	Apply various techniques in solving differential equations.	√	√	√	√							√	√			
3	PH8151/ Engineering Physics	3	C103	C103.1	The students will gain knowledge on the basics of properties of matter and its applications	√	√	√												
				C103.2	The students will acquire knowledge on the concepts of waves and optical devices and their applications in fibre optics	√	√	√												
				C103.3	The students will have adequate knowledge on the concepts of thermal properties of materials and their applications in expansion joints and heat exchangers	√	√	√												
				C103.4	The students will get knowledge on advanced physics concepts of quantum theory and its applications in tunneling microscopes	√	√	√												
				C103.5	The students will understand the basics of crystals, their structures and different Crystal growth techniques.	√	√	√												
4	CY8151 / Engineering Chemistry	3	C104	C104.1	The students will gain knowledge about boiler feed water requirements, water treatment techniques and rectify its problem	√	√	√								√	√			
				C104.2	The students will acquire required knowledge of phase rule and its applications to single and two component systems and appreciate the purpose and significance of alloys	√	√	√								√	√			
				C104.3	The students will gain knowledge on the preparation, properties and applications of engineering materials	√	√	√								√	√			
				C104.4	The students will know and understand the types of fuels, calorific value calculations, manufacture of solid, liquid and gaseous fuels.	√	√	√								√	√			
				C104.5	The students will understand the basics of Principles and generation of energy in batteries, nuclear reactors, solar cells, wind mills and fuel cells.	√	√	√								√	√			

5	GE8151/ Problem Solving and Python Programming	3	C105	C105.1	Develop algorithmic solutions to simple Computational problems	√	√	√										√		√
				C105.2	Read, write, execute by hand simple Python programs.	√	√	√										√	√	
				C105.3	Structure simple Python programs for Solving problems.	√	√	√										√	√	
				C105.4	Decompose a Python program into functions.	√	√	√										√	√	
				C105.5	Represent compound data using Python lists, tuples, dictionaries.	√	√	√										√	√	
				C105.6	Read and write data from/to files in Python Programs.	√	√	√										√	√	√
6	GE8152/ Engineering Graphics	4	C106	C106.1	Familiarize with the fundamentals and Standards of Engineering graphics	√	√	√		√			√	√	√		√			
				C106.2	Perform freehand sketching of basic geometrical constructions and multiple views of objects	√	√	√		√			√	√	√		√			
				C106.3	Project orthographic projections of lines and plane surfaces.	√	√	√		√			√	√	√		√			
				C106.4	Draw projections and solids and Development of surfaces.	√	√	√		√			√	√	√		√			
				C106.5	Visualize and to project isometric and perspective sections of simple solids.	√	√	√		√			√	√	√		√	√		
7	GE8161/ Problem Solving and Python Programming Laboratory	2	C107	C107.1	Write, test, and debug simple Python programs.	√	√	√		√			√	√	√		√	√	√	
				C107.2	Implement Python programs with Conditional sand loops.	√	√	√		√			√	√	√		√	√	√	
				C107.3	Develop Python programs step-wise by defining functions and calling them.	√	√	√		√			√	√	√		√	√	√	
				C107.4	Use Python lists, tuples, dictionaries for representing compound data.	√	√	√		√			√	√	√		√	√	√	
				C107.5	Read and write data from/to files in Python.	√	√	√		√			√	√	√		√	√	√	
8	BS8161/ Physics and Chemistry Laboratory	2	C108	C108.1	Apply principles of elasticity, optics and thermal properties for engineering applications.	√	√	√					√	√	√					
				C108.2	The students will be outfitted withhands-on knowledge in the quantitative chemical analysis of water quality related parameters.	√	√	√					√	√	√					

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DEPARTMENT OF COMPUTER SCIENCE
CO –PO – PSO MAPPING

REGULATION:2017 **SEM:II**

S.NO	SUBJECT NAME/ CODE	COURSE CREDIT	COURSE CODE	COs	COURSE OUTCOMES	PROGRAMME OUTCOME(PO)												PSO		
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	HS8251/ Technical English	4	C109	C109.1	Read technical texts and write area-specific texts effortlessly								√	√	√		√			
				C109.2	Listen and comprehend lectures and talks in their area of specialisation successfully.								√	√	√		√			
				C109.3	Speak appropriately and effectively in varied formal and informal contexts.								√	√	√		√			
				C109.4	Write reports and winning job applications.								√	√	√		√			
				C109.5	Enchance gramatical accuracy.								√	√	√		√			
2	MA8251/ Engineering Mathematics II	4	C110	C110.1	Estimation of Eigenvalues and eigenvectors, Cayley-Hamilton theorem, diagonalization of a matrix, Reduction of a quadratic form to canonical form by orthogonal transformation and Nature of quadratic forms.	√	√	√						√						
				C110.2	Explain Gradient, divergence and curl of a vector point function and related identities.	√	√	√						√						
				C110.3	Evaluation of line, surface and volume integrals using Gauss, Stokes and Green's theorems and their verification.	√	√	√						√						
				C110.4	Analyze and Evaluate Analytic functions, conformal mapping and complex integration.	√	√	√						√						
				C110.5	Laplace transform and inverse transform of simple functions, properties, various related theorems and application to differential equations with constant coefficients.	√	√	√						√						
3	PH8252 / Physics for Information Science	3	C111	C111.1	Gain knowledge on classical and quantum electron theories, and energy band structures	√	√	√												
				C111.2	Acquire knowledge on basics of semi conductor physics and its applications in various devices	√	√	√												
				C111.3	Get knowledge on magnetic properties of materials and their applications in data storage	√	√	√												
				C111.4	Have the necessary understanding on the functioning of optical materials for opto electronics	√	√	√												
				C111.5	Understand the basics of quantum structures and their applications in carbon electronics	√	√	√												
4	BE8255 / Basic Electrical, Electronics and Measurement Engineering	3	C112	C112.1	Discuss the essentials of electric circuits and analysis.	√	√	√										√		
				C112.2	Discuss the basic operation of electric machines and transformers	√	√	√										√		
				C112.3	Introduction of renewable sources and common domestic loads.	√	√	√										√		
				C112.4	Introduction to measurement and metering for electric circuits	√	√	√										√		
5	GE8291/ EnvironmentalScience and Engineering	3	C113	C113.1	Environmental Pollution or problems cannot be solved by mere laws. Public participation is an important aspect which serves the environmental Protection.One will obtain knowledge on the following after completing the course.	√	√	√				√	√	√	√		√			
				C113.2	Public awareness of environmental is at infant stage.	√	√	√				√	√	√	√		√			
				C113.3	Ignorance and incomplete knowledge has lead to misconceptions	√	√	√				√	√	√	√		√			
				C113.4	Development and improvement instead of living has lead to serious environmental disasters	√	√	√				√	√	√	√		√			
6	CS8251 / PROGRAMMING IN C	3	C114	C114.1	Develop simple applications in C using basic constructs	√	√	√					√	√	√		√	√		
				C114.2	Design and implement applications using arrays and strings	√	√	√					√	√	√		√	√	√	√
				C114.3	Develop and implement applications in C using functions and pointers	√	√	√					√	√	√		√	√	√	
				C114.4	Develop applications in C using structures.	√	√	√					√	√	√		√	√	√	
				C114.5	Design applications using sequential and random access file processing	√	√	√					√	√	√		√	√	√	√

7	GE8261/ Engineering Practices Laboratory	2	C115	C115.1	Fabricate carpentry components and pipe connections including plumbing works.	√	√	√	√	√	√		√	√	√		√			
				C115.2	Use welding equipments to join the structures.	√	√	√	√	√	√		√	√	√		√			
				C115.3	Carry out the basic machining operations	√	√	√	√	√	√		√	√	√		√			
				C115.4	Make the models using sheet metal works	√	√	√	√	√	√		√	√	√		√			
				C115.5	Illustrate on centrifugal pump, Air conditioner, operations of smithy, foundary and fittings	√	√	√	√	√	√		√	√	√		√			
				C115.6	Carry out basic home electrical works and appliances	√	√	√	√	√	√		√	√	√		√			
				C115.7	Measure the electrical quantities	√	√	√	√	√	√		√	√	√		√			
				C115.8	Elaborate on the components, gates, soldering practices.	√	√	√	√	√	√		√	√	√		√			
8	CS8261/ C Programming Laboratory	2	C116	C116.1	Develop C programs for simple applications making use of basic constructs, arrays and strings.	√	√	√					√	√	√		√	√		
				C116.2	Develop C programs involving functions, recursion, pointers, and structures.	√	√	√					√	√	√		√	√	√	
				C116.3	Design applications using sequential and random access file processing	√	√	√					√	√	√		√	√	√	

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REGULATION: 2017 **SEM: III**

S.NO	SUBJECT CODE/ NAME	COURSE CREDIT	COURSE CODE	COs	COURSE OUTCOMES	PROGRAMME OUTCOME(PO)												PSO		
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	MA8351/ Discrete Mathematics	4	C201	C201.1	Have knowledge of the concepts needed to test the logic of a program.	√	√	√						√				√		
				C201.2	Be aware of the counting principles.	√	√	√						√				√		
				C201.3	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.	√	√	√						√				√		
				C201.4	Be exposed to concepts and properties of algebraic structures such as groups, rings and fields	√	√	√						√				√		
				C201.5	Have an understanding in identifying structures on many levels.	√	√	√						√				√		
2	CS8351/ Digital Principles and Design	4	C202	C202.1	Simplify Boolean functions using K Map	√	√	√										√		
				C202.2	Design and Analyze Combinational and Sequential Circuits	√	√	√										√		
				C202.3	Implement designs using Programmable Logic Devices	√	√	√										√		
				C202.4	Write HDL code for combinational and Sequential Circuits	√	√	√										√	√	√
3	CS8391/ Data Structures	3	C203	C203.1	Implement abstract data types for linear Data structures.	√	√	√										√	√	√
				C203.2	Apply the different linear and non-linear Data structures to problem solutions.	√	√	√										√	√	√
				C203.3	Critically analyze the various sorting algorithms.	√	√	√										√	√	√
4	CS8392/ Object Oriented Programming	3	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 swings	√	√	√										√	√	
5	EC8395/ CommunicationEngineering	3	C205	C205.1	Ability to comprehend and appreciate the significance and role of this course in the present contemporary world	√	√	√										√		
				C205.2	Apply analog and digital communication techniques.	√	√	√										√		
				C205.3	Use data and pulse communication techniques.	√	√	√										√		
6	CS8381/ Data Structures Laboratory	2	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 scenari of or data storage and retrieval	√	√	√					√	√	√		√	√	√	√
7	CS8383/ Object Oriented Programming Laboratory	2	C207	C207.1	Develop and implement Java programs for simple applications that make use of classes, packages and interfaces.	√	√	√					√	√	√		√	√	√	
				C207.2	Develop and implement Java programs with array list, exception handling and multi threading.	√	√	√					√	√	√		√	√	√	
				C207.3	Design applications using file processing, generic programming and event handling.	√	√	√					√	√	√		√	√	√	
8	CS8382/ Digital Systems Laboratory	2	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	√	√	√			√		√	√	√		√	√		

9	HS8381/ INTERPERSONAL SKILLS/ LISTENING& SPEAKING	1	C209	C209.1	Listen and respond appropriately.								√	√	√		√			
				C209.2	Participate in group discussions								√	√	√		√			
				C209.3	Make effective presentations								√	√	√		√			
				C209.4	Participate confidently and appropriately in conversations both formal and informal								√	√	√		√			

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DEPARTMENT OF COMPUTER SCIENCE
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REGULATION: 2017 **SEM: IV**

S.NO	SUBJECT CODE/ NAME	COURSE CREDIT	COURSE CODE	COs	COURSE OUTCOMES	PROGRAMME OUTCOME(PO)												PSO		
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	MA8402/ Probability and Queueing Theory	4	C210	C210.1	Understand the fundamental knowledge of the concepts of probability and have knowledge of standard distributions which can describe real life phenomenon	√	√	√						√	√		√			
				C210.2	Understand the basic concepts of one and two dimensional random variables and apply in engineering applications.	√	√	√						√	√		√			
				C210.3	Apply the concept of random processes in engineering disciplines.	√	√	√						√	√		√			
				C210.4	Acquire skills in analyzing queueing models.	√	√	√						√	√		√			
				C210.5	Understand and characterize phenomenon which evolve with respect to time in a probabilistic manner	√	√	√						√	√		√			
2	CS8491/ Computer Architecture	3	C211	C211.1	Understand the basics structure of computers, operations and instructions	√	√	√										√	√	
				C211.2	Design arithmetic and logic unit.	√	√	√										√	√	
				C211.3	Understand pipe lined execution and design control unit.	√	√	√										√	√	
				C211.4	Understand parallel processing architectures	√	√	√										√	√	
				C211.5	Understand the various memory systems and I/O communication	√	√	√										√	√	
3	CS8492/ Data base ManagementSystems	3	C212	C212.1	Classify the modern and futuristic data base applications based on size and complexity	√	√	√										√	√	
				C212.2	Map ER model to Relational model to Perform data base design effectively	√	√	√										√	√	
				C212.3	Write queries using normalization criteria and optimize queries	√	√	√										√	√	
				C212.4	Compare and contrast various indexing strategies in different data base systems	√	√	√										√	√	
				C212.5	Appraise how advanced data bases differ from traditional databases	√	√	√										√	√	
4	CS8451/ Design and Analysis of Algorithms	3	C213	C213.1	Design algorithms for various computing problems.	√	√	√						√	√		√	√	√	
				C213.2	Analyze the time and space complexity of Algorithms	√	√	√						√	√		√	√	√	
				C213.3	Critically analyze the different algorithm design techniques for a given problem.	√	√	√						√	√		√	√	√	
				C213.4	Modify existing algorithms to improve efficiency.	√	√	√						√	√		√	√	√	
5	CS8493/ Operating Systems	3	C214	C214.1	Analyze various scheduling algorithms.	√	√	√										√	√	
				C214.2	Understand dead lock, prevention and avoidance algorithms.	√	√	√										√	√	
				C214.3	Compare and contrast various memory management schemes.	√	√	√										√	√	
				C214.4	Understand the functionality of file systems.	√	√	√										√	√	
				C214.5	Perform administrative tasks on Linux Servers.	√	√	√										√	√	
				C214.6	Compare iOS and Android Operating Systems.	√	√	√										√	√	
6	CS8494/ Software Engineering	3	C215	C215.1	Identify the key activities in managing a software project.	√	√	√		√	√		√	√	√		√	√	√	
				C215.2	Compare different process models.	√	√	√		√	√		√	√	√		√	√	√	
				C215.3	Concepts of requirements engineering and Analysis Modeling	√	√	√		√	√		√	√	√		√	√	√	
				C215.4	Apply systematic procedure for software design and deployment.	√	√	√		√	√		√	√	√		√	√	√	
				C215.5	Compare and contrast the various testing and maintenance.	√	√	√		√	√		√	√	√		√	√	√	
				C215.6	Manage project schedule, estimate project cost and effort required.	√	√	√		√	√		√	√	√		√	√	√	

7	CS8481/ Database ManagementSystems Laboratory	2	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	√	√	√					√	√	√		√	√	√	
8	CS8461/ Operating Systems Laboratory	2	C217	C217.1	Compare the performance of various CPU Scheduling Algorithms	√	√	√					√	√	√		√	√	√	√
				C217.2	Implement Deadlock avoidance and Detection Algorithms	√	√	√					√	√	√		√	√	√	√
				C217.3	Implement Semaphores	√	√	√					√	√	√		√	√	√	√
				C217.4	Create processes and implement IPC	√	√	√					√	√	√		√	√	√	√
				C217.5	Analyze the performance of the various Page Replacement Algorithms	√	√	√					√	√	√		√	√	√	√
				C217.6	Implement File Organization and File Allocation Strategies	√	√	√					√	√	√		√	√	√	√
9	HS8461/ Advanced Reading and Writing	1	C218	C218.1	Write different types of essays.								√	√	√		√			
				C218.2	Write winning job applications.								√	√	√		√			
				C218.3	Read and evaluate texts critically.								√	√	√		√			
				C218.4	Display critical thinking in various professional contexts.								√	√	√		√			

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Periyanaickenpalayam, Coimbatore – 641020
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DEPARTMENT OF COMPUTER SCIENCE
CO –PO – PSO MAPPING

REGULATION: 2017 **SEM: V**

S.NO	SUBJECT CODE/ NAME	COURSE CREDIT	COURSE CODE	COs	COURSE OUTCOMES	PROGRAMME OUTCOME(PO)												PSO		
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	MA8551/ Algebra and Number Theory	4	C301	C301.1	Apply the basic notations of groups, rings, fields which will then be used to solve related problems.	√	√	√						√						
				C301.2	Explain the fundamental concepts of advanced algebra and their role in modern mathematics and applied contexts.	√	√	√						√						
				C301.3	Demonstrate accurate and efficient use of advanced algebraic techniques	√	√	√						√						
				C301.4	Demonstrate their mastery by solving non-trivial problems related to the concepts, and by proving simple theorems about the statements proven by the text.	√	√	√						√						
				C301.5	Apply integrated approach to number theory and abstract algebra and provide a firm basis for further reading and study.	√	√	√						√						
2	CS8591/ Computer Networks	3	C302	C302.1	Understand the basic layers and its functions in computer networks.	√	√	√										√		
				C302.2	Evaluate the performance of a network	√	√	√										√		
				C302.3	Understand the basics of how data flows from one node to another	√	√	√										√		
				C302.4	Analyze and design routing algorithms.	√	√	√										√	√	
				C302.5	Design protocols for various functions in the network.	√	√	√										√		
				C302.6	Understand the working of various application layer protocols.	√	√	√										√		
3	EC8691/ Microprocessors and Microcontrollers	3	C303	C303.1	Understand and execute programs based on 8086 microprocessor.	√	√	√										√		
				C303.2	Design Memory Interfacing circuits.	√	√	√										√		
				C303.3	Design and interface I/O circuits.	√	√	√										√		
				C303.4	Design and implement 8051 microcontroller based systems.	√	√	√										√		
4	CS8501/ Theory of Computation	3	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.	√	√	√										√		
5	CS8592/ Object Oriented Analysis and Design	3	C305	C305.1	Express software design with UML diagrams	√	√	√			√							√	√	
				C305.2	Design software applications using OO concepts.	√	√	√			√							√	√	
				C305.3	Identify various scenarios based on software requirements	√	√	√			√							√	√	
				C305.4	Transform UML based software design into pattern based design using design patterns	√	√	√			√							√	√	
				C305.5	Understand the various testing methodologies for OO software	√	√	√			√							√	√	
6	OMF551/ Prodcut Design and Development		C306	C306.1	The student will be able to design some products for the given set of applications; also the knowledge gained through prototyping technology will help the student to make a prototype of a problem and hence product design and development can be achieved.	√	√	√					√	√	√		√	√	√	
7	EC8681/ Microprocessors and Microcontrollers Laboratory	2	C307	C307.1	Write ALP Programmes for fixed and Floating Point and Arithmetic operations	√	√	√					√	√	√		√			
				C307.2	Interface different I/Os with processor	√	√	√					√	√	√		√			
				C307.3	Generate waveforms using Microprocessors	√	√	√					√	√	√		√			
				C307.4	Execute Programs in 8051	√	√	√					√	√	√		√			
				C307.5	Explain the difference between simulator and Emulator	√	√	√					√	√	√		√			

8	CS8582/ Object Oriented Analysis and Design Laboratory	2	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.	√	√	√		√	√		√	√	√		√	√	√	
9	CS8581/ Networks Laboratory	2	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.	√	√	√					√	√	√		√	√	√	

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DEPARTMENT OF COMPUTER SCIENCE
CO –PO – PSO MAPPING

REGULATION: 2017 **SEM: VI**

S.NO	SUBJECT CODE/ NAME	COURSE CREDIT	COURSE CODE	COs	COURSE OUTCOMES	PROGRAMME OUTCOME(PO)												PSO		
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	CS8651/ Internet Programming	3	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	√	√	√					√	√	√		√	√	√	
2	CS8691/ Artificial Intelligence	3	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.	√	√	√										√		
3	CS8601/ Mobile Computing	3	C312	C312.1	Explain the basics of mobile telecommunication systems	√	√	√												
				C312.2	Illustrate the generations of telecommunication systems in wireless networks	√	√	√												
				C312.3	Determine the functionality of MAC, network layer and Identify a routing protocol for a given Ad hoc network	√	√	√												
				C312.4	Explain the functionality of Transport and Application layers	√	√	√												
				C312.5	Develop a mobile application using android/blackberry/ios/Windows SDK	√	√	√					√	√	√		√	√		
4	CS8602/ Compiler Design	4	C313	C313.1	Understand the different phases of compiler.	√	√	√					√	√	√		√	√		
				C313.2	Design a lexical analyzer for a sample language.	√	√	√					√	√	√		√	√		
				C313.3	Apply different parsing algorithms to develop the parsers for a given grammar	√	√	√					√	√	√		√	√		
				C313.4	Understand syntax-directed translation and run-time environment.	√	√	√					√	√	√		√	√		
				C313.5	Learn to implement code optimization techniques and a simple code generator.	√	√	√					√	√	√		√	√		
				C313.6	Design and implement a scanner and a parser using LEX and YACC tools.	√	√	√					√	√	√		√	√		
5	CS8603/ Distributed Systems	3	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	√	√	√												

6	CS8075 / Data Warehousing and Data Mining	3	C315	C315.1	Design a Data warehouse system and perform business analysis with OLAP tools.	√	√	√										√	√	
				C315.2	Apply suitable pre-processing and visualization techniques for data analysis	√	√	√										√	√	
				C315.3	Apply frequent pattern and association rule mining techniques for data analysis	√	√	√										√	√	
				C315.4	Apply appropriate classification and clustering techniques for data analysis	√	√	√										√	√	
7	CS8661/ Internet Programming Laboratory	2	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.	√	√	√		√			√	√	√		√	√	√	
8	CS8662/ Mobile Application Development Laboratory	2	C317	C317.1	Develop mobile applications using GUI and Layouts.	√	√	√		√	√		√	√	√		√	√	√	
				C317.2	Develop mobile applications using Event Listener.	√	√	√		√	√		√	√	√		√	√	√	
				C317.3	Develop mobile applications using Databases.	√	√	√		√	√		√	√	√		√	√	√	
				C317.4	Develop mobile applications using RSS Feed, Internal/External Storage, SMS,Multithreading and GPS.	√	√	√		√	√		√	√	√		√	√	√	
				C317.5	Analyze and discover own mobile app for simple needs.	√	√	√		√	√		√	√	√		√	√	√	
9	Mini Project	1	C318	C318.1		√	√	√	√	√	√	√	√	√	√	√	√			

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DEPARTMENT OF COMPUTER SCIENCE
CO –PO – PSO MAPPING

REGULATION: 2017 **SEM: VII**

S.NO	SUBJECT CODE/ NAME	COURSE CREDIT	COURSE CODE	COs	COURSE OUTCOMES	PROGRAMME OUTCOME(PO)												PSO		
						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	MG8591/ Principles of Management	3	C401	C401.1	Upon completion of the course, students will be able to have clear understanding of managerial functions like planning, organizing, staffing, leading & controlling and have same basic knowledge on international aspect of management	√	√	√								√				
2	CS8792/ Cryptography and Network Security	3	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	√	√	√										√	√	
3	CS8791/ Cloud Computing	3	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.	√	√	√										√	√	
				C403.6	Evaluate and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud.	√	√	√										√	√	
4	OIE751/ Robotics	3	C404	C404.1	Upon completion of this course, the students can able to apply the basic engineering knowledge for the design of robotics	√	√	√								√	√	√	√	
5	CS8081/ INTERNET OF THINGS	3	C405	C405.1	Explain the concept of IoT.	√	√	√										√	√	
				C405.2	Analyze various protocols for IoT.	√	√	√										√	√	
				C405.3	Design a PoC of an IoT system using Rasperry Pi/Arduino	√	√	√										√	√	
				C405.4	Apply data analytics and use cloud offerings related to IoT.	√	√	√										√	√	
				C405.5	Analyze applications of IoT in real time scenario	√	√	√										√	√	
6	CS8079/ Human Computer Interaction	3	C406	C406.1	Design effective dialog for HCI	√	√	√												
				C406.2	Design effective HCI for individuals and persons with disabilities	√	√	√												
				C406.3	Assess the importance of user feedback.	√	√	√												
				C406.4	Explain the HCI implications for designing multimedia/ ecommerce/ e-learning Web sites.	√	√	√												
				C406.5	Develop meaningful user interface.	√	√	√												

7	CS8711/ Cloud Computing Laboratory	2	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	√	√	√		√			√	√	√		√	√	√	√
8	IT8761/ Security Laboratory	2	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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REGULATION: 2017 **SEM: VIII**

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						1	2	3	4	5	6	7	8	9	10	11	12	1	2	3
1	GE8076/ Professional Ethics in Engineering	3	C409	C409.1	Upon completion of the course, the student should be able to apply ethics in society, discussthe ethical issues related to engineering and realize the responsibilities and rights in the society.						√	√	√	√	√		√			
2	CS8078 Green Computing	3	C410	C410.1	Acquire knowledge to adopt green computing practices to minimize negativeimpacts on the environment.	√	√	√										√	√	
				C410.2	Enhance the skill in energy saving practices in their use of hardware.	√	√	√										√	√	
				C410.3	Evaluate technology tools that can reduce paper waste and carbon footprint by the stakeholders.	√	√	√										√	√	
				C410.4	Understand the ways to minimize equipment disposal requirements	√	√	√										√	√	
3	CS8811/ Project Work	10	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.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√