DEPARTMENT OF COMPUTER SCIENCE
Semester wise Course outcomes
Honours

	Semester I	
SL. No.	**Name of the Course**	**Outcomes**
1	GE-I T: Computer Fundamentals.	1. Provides basic knowledge of Computer Fundamental. 2. Understand binary, octal, decimal and Hexadecimal and their Arithmetic. 3. This Course aims to enlighten the student on Human Computer Interface, Devices, and Memory. 4. Demonstrate the building up of Computer Organization and Architecture. 5. Know about Overview of Emerging Technologies.
	GE-I P: Computer Fundamentals Lab	1. Updates students about some experiments on MS Word, and MS Excel. 2. Performing basic editing functions, formatting text, copy and moving objects and text. 3. Leaning the formatting skills on paragraphs, tables, lists, and pages. 4. Understanding the process of inserting graphics, pictures, and table of contents, Drop Cap. 5. Demonstrate the mechanics and uses of Word tables to organize and present data. 6. Creating and producing a mail merge 7. Learning the use and utility of functions and formulas on excel spreadsheet.
	Semester II	
1	GE-2T: Introduction to Database System.	1. Understand the basic principles of database management systems. 2. Draw Entity-Relationship diagrams to represent simple database application 3. Scenarios.
	GE-2P : Introduction to Database System (Lab)	1. To understand and use SQL to query, update and manage a database.

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		Semester-III
1.	GE3T: Introduction to Programming.	1. To know basic knowledge of C and C++ and different programming paradigm. 2. Understand the Data Types, Variables, Constants, Operators and Basic I/O, Expressions, Conditional Statements and Iterative Statements. 3. Ability to develop C and C++ programs that uses arrays, functions, files, structures and unions.
2.	GE3P: Introduction to c/c++ Programming Lab.	1. To study and understand the object oriented programming concepts and understand key features of object oriented programming language such as Inheritance and Polymorphism.
		Semester-IV
1.	GE4T: Programming in Python. GE4P: Programming in Python Lab.	1. To learn and understand Planning the Computer Program, Techniques of Problem Solving and Overview of Programming. 2. To learn and know the concepts of Python and Creating Python Programs, Iteration and Recursion, Strings and Lists. 3. To study and understand the Object Oriented Programming, Data Structures, Searching and Sorting,

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Semester wise Course outcomes
General

Semester I		
1.	DSC1AT: Problem Solving using Computers. DSC1AP: Software Lab using Python(Lab)	1. Provides basic knowledge about computer fundamental, planning computer program, and teaching of problem solving, computer program. 2. Provides basic ideas about Python language, Python program, and structure of Python program. 3. Importance about advance Python. 4. Student perform practical on Python program.
Semester-II		
1	DSC1BT: Database Management Systems. DSC1BP: Software Lab based on Database Management Systems (Lab)	1. To develop knowledge about Database Management system, entity relationship, and ER-Modeling, Relational data model. 2. To learn about database design and student perform practical on DBMS.
Semester-III		
1.	DSC1CT: Operating Systems. DSC1CP: Software Lab based on Operating Systems (Lab).	1. Imparts knowledge about operating system, type of O.S and O.S organization. 2. To give student knowledge about process management, scheduling and memory management. 3. Provides a particular approach on operating system (Shell programing).
2.	SEC1T: HTML Programming. SEC1P: Software Lab Based on HTML.	1. Create understanding about HTML. 2. Give knowledge about basic HTML, image, table, Forms. 3. Motive the student to develop HTML program. 4. Update student about some experiments on HTML programing.

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General

Semester-IV		
1.	DSC1DT: Computer System Architecture. DSC1DP: Computer System Architecture Lab	1. Provides basic ideas about hardware. 2. To learn about data representation and Computer Architecture. 3. To develop knowledge about Computer Organization and design CPU. 4. Updates students about computer program. 5. To perform experiments on computer system Architecture.
2.	SEC2T: PHP Programming. SEC2P: PHP Programming (Lab).	1. To develop knowledge about PHP. 2. Imparts, knowledge about PHP conditional event and loops, PHP function, string manipulation, and Regular expression, Array. 3. Provides practical approach on PHP programing.

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Semester wise Course outcomes
General

Semester-V		
1.	DSE1T: Computer Networks DSE1P: Computer Networks	1. Basic concept about Networking 2. Student gain insight about different Network layer: Physical layer, Network layer, Transport layer, and Application layer. 3. Create understanding on Network security. 4. Provides a practical approach on Computer Network.
2.	SEC3T: Programming with Matlab	1. Provide basic ideas about MATLAB, matrices, and vectors. 2. To learn about computer program by using MATLAB to solve different mathematical problem. 3. This course enables the students to gain knowledge about MATLAB programing and Numerical simulations and practical approach on MATLAB programing.
Semester- VI		
1	DSE2T: Cloud Computing DSE2P: Cloud Computing (Lab)	1. Provide basic concept about Cloud computing. 2. To develop knowledge about Cloud services and file system, collaborating with cloud, Virtualization, Cloud security, Standard and Application. 3. Provides practical approach on Cloud computing.
2	SEC4T: XML Programming SEC4P: Software Lab Based on XML	1. To give the student basic knowledge of XML. 2. Motivate the students to develop XML style basis, XML data linking, scripting. 3. To give student knowledge about XML structure, syntax, document classes and rules. 4. To performed experiments on XML programing

DEPARTMENT OF COMPUTER SCIENCE
Year wise Course outcomes
General

		1st Year(Part-I)	
1.	PAPER –I Theoretical Group-A: Computer Fundamental	1. Bridge the fundamental concepts of computers with the present level of knowledge of the students. 2. Understand some basic concept of programming languages.
2.	PAPER –I Theoretical Group -B: Digital Electronics	1. Understand number systems and their arithmetic. 2. Understand how logic circuits and Boolean algebra forms as the basics of digital computer. 3. Understand basic structure of computer-I/O unit, ALU, memory unit, Control unit etc.
3.	PAPER –I Theoretical Group -C: Programming in C	1. Understand basic concept of Types of operations and expressions, Variable names, Data type, Arithmetic, relational and logical operators. Type conversion. Bit wise logical operators and conditional expressions. 2. Understand control flow, functions, arrays and pointers.
4.	PAPER –I Theoretical Group -D: Data Structure	1. Bridge the fundamental concepts of algorithm. 2. Understand linear data structures, tree and searching.

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Year wise Course outcomes
General

	2nd Year(Part-II)	
1.	PAPER -II GROUP – A (TH) Unit-I: Basic concepts of Operating Systems	1. Understand basic introduction of operating system and different types of operating system. 2. Known about concept of process, different types of CPU scheduling and memory management
2.	PAPER -II GROUP – A (TH) Unit-II: Data Base Management Systems	1. Understand differences of database and database management system, basic concept of DBMS. 2. Briefly describe how DBMS internally connected. 3. Understand Relational Algebra Relational, Database Design, Structured Query Languages, Functional dependencies
3.	PAPER -II GROUP – B (PR) Data Base Management Systems ORACLE	1. Understand the way create a table, Table and Record Handling, Retrieving Data from a Database, and also structured query language by oracle.
4.	PAPER-III (PR) Group -A: Digital Electronics	1. Known about different types of IC's. 2. Demonstrate the Universal nature of NAND and NOR gates. 3. Set up Exclusive -OR function using NAND & NOR gates. 4. Demonstrate the use of Half-Adder and Full-Adder using NAND/NOR gates.
5.	PAPER-III (PR) Group -B: Programming in C and Data Structure	1. Program on control statement (IF, Switch, LOOP), Arrays, Functions, Searching, Sorting, String manipulation, Recursion, Searching, Sorting.

6.	PAPER-III (PR) Group -C: MS Word, EXCEL and Power Point	1. Understand the Concept of general tools of MS word, Excel and PowerPoint. Document prepare and analysis using MS-Excel, Presentation slide prepared using animation.
3rd Year(Part-III)		
1.	PAPER-IV GROUP –A (TH) Unit – I: Computer Networks	1. Understand the basic concept of Data Communication and network. 2. Demonstrate the building up of physical layer, data link layer, network layer and application layer. 3. Understand the basic working principal of all those layer.
2.	PAPER-IV GROUP –A (TH) Unit – II: OOPS Using C++	1. Understand the basic Principles of Object Oriented Programming (OOP). 2. Briefly understand about C++(control statement , array, pointers ,loop, Inline Functions, friend function, function Overloading and Operator Overloading, Classes and Objects, Constructors and Destructors, Type Constructors.) 3. Understand how different types of Inheritance works on c++.
3.	PAPER-IV GROUP – B (PR): Programming in C++	1. Developing different types of Programming in C++. 2. Implement Classes and Objects. 3. Implement different types of inheritances like Multiple, Multilevel and Hybrid.
4.	PAPER-IV GROUP –C: Project (Based on VB/PHP/dot NET/Mobile Technology/Web Application etc.)	1. Understand how develop, design and control a web based software using dot NET.