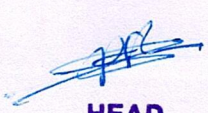


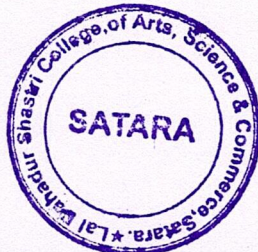
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Subject Name and Subject Code

Class	Paper No.	Subject Name	Subject Code	Course Code
B.Sc.I	I	PROBLEM SOLVING USING COMPUTERS	71613	DSC-11A
	II	Database Management System	71613	DSC-12A
	III	Programming Skills Using 'C'.	72852	DSC-11B
	IV	Relational Database Management System	72852	DSC-12B
B.Sc.II	V	PHP and MySQL	73310	DSC-11C
	VI	Object Oriented Programming Using C++	73310	DSC-12C
	VII	Cyber Security Essentials-I	78917	DSC-11D
	VIII	Data Structure Using C++	78917	DSC-12D
B.Sc.III	IX	Core Java	79728	DSC-21E
	X	C# Programming	79729	DSC-22E
	XI	LINUX Part I	79730	DSC-23E
	XII	Python Part I	79731	DSC-24E
	XIII	Advanced Java	81918	DSC-21F
	XIV	ASP .NET	81919	DSC-22F
	XV	Linux Part II	81920	DSC-23F
	XVI	Python Part II	81921	DSC-24F

  
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Program Specific Outcomes

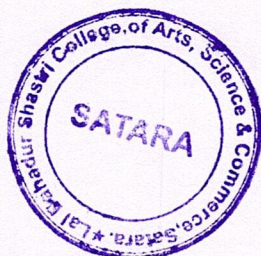
### **B.Sc. (Computer Science) Program Outcome**

After completion of program students will able to

- Develop ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
- To prepare students to undertake careers involving problem solving using computer science and technologies.
- Develop ability to pursue advanced studies and research in computer science.
- To produce entrepreneurs who can innovate and develop software product.
- Individual and group study projects and assignments involving individual and team work encourage knowledge sharing and communication
  - To learn and develop various technology applications that definitely meets the Current industry needs.



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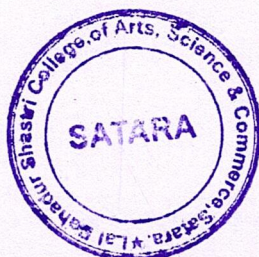
**Course Outcomes**

**FY.B.Sc. (Computer Science) Semester-I**

Paper-I DSC-11A : Problem Solving Using Computers	<b>Course Outcomes:</b> -Upon successful completion of the course students will able to: 1) Demonstrate a familiarity of computer programming language concepts. 2) Understand to develop C programs on Linux platform. 3) Apply C programming control structures for problem solving. 4) Understand working and implementation of arrays.
Paper-II DSC-12A : Database Management System	<b>Course Outcomes:</b> - Upon successful completion of the course students will able to: 1) Describe the basic concepts of DBMS and various databases used in real applications. 2) Demonstrate the principles behind systematic database design approaches.

**FY.B.Sc. (Computer Science) Semester-II**

Paper-III DSC-11B Programming Skills Using 'C'.	<b>Course Outcomes:</b> -Upon successful completion of the course students will able to: 1) Understand the concept and importance of pointers in C language. 2) Demonstrate an understanding of functions in problem solving. 3) Understand working of structure and dynamic memory allocation. 4) Apply file handling techniques using C language.
Paper-IV DSC-12B Relational Database Management System	<b>Course Outcomes:</b> -Upon successful completion of the course students will able to: 1) Understand the importance and working of database. 2) Demonstrate an understanding of the relational data model. 3) Understand the concept of normalization and apply such knowledge to the normalization of a database. 4) Apply SQL queries for database management





### S. Y. B.Sc.(Computer Science) Semester- III

Course	Course Outcomes
<b>Course Code:</b> DSC-11C <b>Computer Paper –V</b> <b>Course Title:</b> PHP and MySQL	Students will be able 1. To understand basic concept of PHP. 2. To Learn how to developing applications in PHP using MySQL. 3. To learn and develop various PHP technology applications that definitely meets the Current industry needs.
<b>Course Code:</b> DSC-12C <b>Computer Paper –VI</b> <b>Course Title:</b> Object Oriented Programming Using C++	Perform object oriented programming to develop solutions to problems demonstrating usage of control Structures, modularity, I/O and other standard language constructs. <b>Students will be able</b> 1. To understand how C++ improves C with object oriented features 2. To learn syntax and semantics of C++ programming language 3. To learn how to write inline functions for efficiency and performance. 4. To learn how to overload functions and operators in C++. 5. To learn how to design C++ classes for code reuse. 6. To learn how inheritance promote code reuse in C++. 7. To learn how inheritance and virtual functions implement dynamic binding with polymorphism.

### S. Y. B.Sc.(Computer Science) Semester- IV

Course	Course Outcomes
<b>Course Code:</b> DSC-11D <b>Computer Paper –VII</b> <b>Course Title:</b> Cyber Security Essentials-I	<b>Students will be able to:</b> 1. Understand concept of information security management. 2. Learn different access controls methods. 3. Understand wireless network security. 4. Learn cyber security laws and importance of security audit.
<b>Course Code:</b> DSC-12D <b>Computer Paper –VIII</b> <b>Course Title:</b> Data Structure Using C++	<b>Students will be able to</b> 1. Understand the basic concepts such as Abstract Data Types, Linear and Non Linear Data structures. 2. Ability to choose appropriate data structures to represent data items in real world problems. 3. Ability to analyze the time and space complexities of algorithms. 4. Ability to design programs using a variety of data structures such as array, stacks, queues, linked list 5. Able to analyze and implement various kinds of searching and sorting techniques.





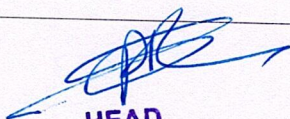
### T.Y. B.Sc. (Computer Science) Semester V

Course	Course Outcomes
<b>Course Code: DSE-21E</b> <b>Computer Paper IX</b> <b>Course Title: Core Java</b>	1. Object oriented programming concepts using Java. 2. Knowledge of input, its processing and getting suitable output. 3. Understand, design, implement and evaluate classes and applets 4. Understand concept of Multiprogramming and Exception Handling
<b>Course Code: DSE-22E</b> <b>Computer Paper X</b> <b>Course Title: C# Programming</b>	This course will cover the practical aspects C#.NET framework. The goal of this course is to Introduce the students to the basics of OOPs and windows application program.
<b>Course Code: DSE-23E</b> <b>Computer Paper XI</b> <b>Course Title: LINUX Part I</b>	1. Upon completion of this course, students should have a good working knowledge of Linux. 2. Allowing them to easily use any Linux distribution. 3. This course shall help student to learn advanced subjects in computer science practically
<b>Course Code: DSE-24E</b> <b>Computer Paper XII</b> <b>Course Title: Python Part I</b>	1. To understand why Python is a useful scripting language for developers 2. To learn how to write loops and decision statements in Python 3. To learn how to use lists, tuples, and dictionaries in Python programs

### T.Y. B.Sc. (Computer Science) Semester VI

Course	Course Outcomes
<b>Course Code: DSE-21F</b> <b>Computer Paper XIII</b> <b>Course Title: Advanced Java</b>	1) The student will be able to develop distributed business applications, develop web pages Using advanced server-side programming through Servlet and Java server pages. 2) Demonstrate approaches for performance and effective coding 3) To learn database programming using Java 4) To study web development concept using Servlet and JSP
<b>CourseCode:DSE-22F</b> <b>Computer Paper XIV</b> <b>Course Title: ASP .NET</b>	This course will cover the practical aspects of multi-tier web based application development using the .NET framework. The goal of this course is to introduce the students to the basics of distributed Web application development.
<b>CourseCode:DSE-23F</b> <b>Computer Paper XV</b> <b>Course Title: Linux Part II</b>	1. This course covers design principles of Linux Operating System Memory management. 2. Structure of File system and virtual file system is also elaborated. 3. This course contains details of shell programming and introduces System administration
<b>CourseCode:DSE-24F</b> <b>Computer Paper XVI</b> <b>Course Title: Python Part II</b>	1. To learn how to write functions and pass arguments in Python 2. To learn how to build and package Python modules for reusability 3. To learn how to use exception handling in Python applications for error handling



  
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