

**Devchand College Arjunnagar**  
**Department of Computer**  
**B. Sc. Computer Science**

**Program Specific Outcomes**

**A ]** Effectively communicating computing concepts and solutions to bridge the gap between computing industry experts and business leaders to create and initiate innovation.

**B]**  Ability to use approximately system design notations and apply system design engineering process in order to design, plan and implement software systems.

**C]**  preparing for a career in an information technology oriented business or industry or for graduate study in computer science or other scientific or technical fields.

**D]**  Ability to complete successfully to program small –to-mid-size programs on their own.

**E]**  Effectively utilizing the knowledge of computing principles and mathematics theory to develop sustainable solutions to current and future computing problems.

**F]**  Developing and implementing solution based system and/or process that address issues and/or improve existing systems within a computing based industry.

**Course Outcomes**

**B.sc-I program outcomes**

**Semester –I Computer Science paper no-DSC-11A**

**Problem Solving Using Computers**

1. Ability to develop applications.
2. Creation algorithms and flowcharts to solve simple programming problems.
3. Understanding to design, implement, test, debug a program that uses calculations, loops, array, function, pointers, structure etc.
4. Memory management using C.

**Semester –I Computer Science paper no-DSC-12A**

**Database Management System**

1. Knowledge of Database concepts, data model, Relational Algebra.
2. Knowledge of basic SQL queries.

**B.sc-II program outcomes**

**Semester –III Computer Science paper –DSC-11C**

**PHP and MySQL:**

1. Getting the PHP Programming skills needed to successfully build interactive, data driven sites.
2. Understanding working of XAMPP server and working of different array functions to insert, retrieve, display and sort array elements.
3. Understanding how to develop web applications in PHP using MySQL.

**Semester –III Computer Science paper –DSC-12C**

**Object Oriented Programming Using C++**

1. Using the characteristics of an object-oriented programming language in a program.
2. Using the basic object-oriented design principles in computer problem solving.
3. Programming with advanced features of the C++ programming language.
4. Using C++ classes for code reuse.

## **B.sc-III program outcomes**

### **Semester –V Computer Science paper –IX**

#### **Computer Networking:**

1. Understanding the concepts, vocabulary and techniques currently used in the area of computer networks.
2. Getting known with wireless networking concepts.
3. Understanding classification of network, transmission impairments, Data transmission methods etc.
4. Understanding installation of Windows Server 2008 and managing active directory.

### **Semester –V Computer Science paper –X**

#### **Visual programming using C#:**

1. Design, document, code and test C# console and GUI applications
2. Building and using classes, events, methods, properties.
3. Design and implement Web Applications using ASP.NET.
4. Understand and use of different validation controls. 5. ADO.NET database application.

### **Semester –V Computer Science paper –X**

#### **Linux Operating System :**

1. Understanding the Linux Architecture, use of basic command and to explain administrator privileges, super user basic command to add, modify and delete users and to understand basics of File systems.
2. Understanding the Directory commands, File related commands and changing file permission and directory permission. To understand VI editor basics. Pattern searching and search and replace commands.
3. Understanding shell basics, connecting commands and Basics and Extended regular expressions, the grep and egrep and shell programming.

## **Semester –V Computer Science paper –XII**

### **PHP and MySQL:**

1. Getting the PHP Programming skills needed to successfully build interactive, data driven sites.
2. Understanding working of XAMPP server and working of different array functions to insert, retrieve, display and sort array elements.
3. Understanding how to develop web applications in PHP using MySQL.