

**Visvodaya Govt. Degree College, Venkatagiri**  
**SPSR Nellore district 524 132**

**Department of Computer Applications**

**I SEMESTER**

**Computer Fundamentals & Photoshop**

- CO1: Design layouts for web pages, Paper Adverts, Brouchers, CD Covers, Package Designing
- CO2 : Event and Exhibition stall Designs, Pop Ups
- CO3: Touch Ups
- CO4: Color corrections
- CO5 : Paintings, Drawings
- CO6 : Converting B/W photo to color

**II SEMESTER**

**Paper-II: PROGRAMMING IN C**

Upon successful completion of the course, a student will be able to:

- CO1: Appreciate and understand the working of a digital computer
- CO2: Analyze a given problem and develop an algorithm to solve the problem
- CO3: Improve upon a solution to a problem
- CO4: Use the 'C' language constructs in the right way
- CO5: Design, develop and test programs written in 'C'

**III SEMESTER**

**DSC-3C OFFICE AUTOMATION TOOLS**

- CO1: Learn the basic concepts of MS Excel.
- CO2: Understanding the formatting options and functions in MS Excel
- CO3: Understanding the concepts of Charts and Macros in Ms Excel
- CO4: Understanding the concepts Tables and Forms in MS Access .
- CO5: Learn the Queries and Reports concepts of MS Access.

**IV SEMESTER**

**DSC-3D : OBJECT ORIENTED PROGRAMMING WITH C++**

At the end of this course student will:

- CO1: Understand the concept and underlying principles of Object-Oriented Programming

- CO2: Understand how object-oriented concepts are incorporated into the Java programming language
- CO3: Develop problem-solving and programming skills using OOP concept
- CO4: Understand the benefits of a well structured program
- CO5: Develop the ability to solve real-world problems through software development in high-level programming language like Java
- CO6: Develop efficient Java applets and applications using OOP concept
- CO7: Become familiar with the fundamentals and acquire programming skills in the Java language.

## **V SEMESTER**

### **Paper-V Programming with java**

At the end of this course student will:

- CO1: Understand the concept and underlying principles of Object-Oriented Programming
- CO2: Understand how object-oriented concepts are incorporated into the Java programming language
- CO3: Develop problem-solving and programming skills using OOP concept
- CO4: Understand the benefits of a well-structured program
- CO5: Develop the ability to solve real-world problems through software development in high-level Programming language like Java
- CO6: Develop efficient Java applets and applications using OOP concept
- CO7: Become familiar with the fundamentals and acquire programming skills in the Java language.

### **Paper-VI WEB TECHNOLOGY**

- CO1: To understand the web architecture and web services.
- CO2: To practice latest web technologies and tools by conducting experiments.
- CO3: To design interactive web pages using HTML and Style sheets.
- CO4: To study the framework and building blocks of .NET Integrated Development Environment.
- CO5: To provide solutions by identifying and formulating IT related problems.

## **VI SEMESTER Paper-VII: Elective-A**

### **Operating Systems**

- CO1: Analyze the concepts of processes in operating system and illustration of the scheduling of Processor for a given problem instance.
- CO2: Identify the dead lock situation and provide appropriate solution so that protection and security of the operating system is also maintained.
- CO3: Analyze memory management techniques, concepts of virtual memory and disk scheduling.
- CO4: Understand the implementation of file systems and directories along with the interfacing of IO devices with the operating system.

### **VI SEMESTER Paper-VII: Elective-B**

#### **Software Engineering**

- CO1: Able to understand the Role of Software, Myths and risk management process that is risk strategies.
- CO3: Ability to gather and specify requirements of the software projects and analyze the analysis model.
- CO4: Able to design Architectural styles and patterns & analyze.
- CO5: Describe technical issues related to software quality and testing and ability to work in a term as well as independent of projects.

### **VI SEMESTER Paper-VII: Elective-C**

#### **COMPUTER NETWORKS**

After this course, the student will be able to

- CO1: Identify the different components in a Communication System and their respective roles.
- CO2: Describe the technical issues related to the local Area Networks
- CO3: Identify the common technologies available in establishing LAN infrastructure

### **VI SEMESTER**

#### **(Cluster 1) Paper-VIII: Elective –A-1**

#### **E-COMMERCE APPLICATIONS**

- CO1: Ability to gather and understand the concepts of Electronic Commerce.
- CO2: Learn to understand the concepts of Supply Chain Management
- CO3: Able to differentiate the types of Electronic Payment System
- CO4: Able to understand the basic concepts of JavaScript.
- CO5: Able to understand the concepts of Control Structures

### **VI SEMESTER**

#### **(Cluster 1) Paper-VIII: Elective –A-2**

#### **DATA BASE MANAGEMENT SYSTEM**

- CO1: Demonstrate the basic concepts and explore the classifications, objectives and evaluation of Database systems.
- CO2: Understand the concept of file based system and relational database model.
- CO3: Learn entity relationship models and normalization
- CO4: Identify the basic issues of SQL, Aggregate functions and set operators.
- CO5: Expose in PL/SQL program and control structures.

### **VI SEMESTER**

**(Cluster 1) Paper-VIII: Elective –A-3**  
**PROJECT WORK**

The objective of the project is to motivate them to work in emerging/latest technologies, help the students to develop ability, to apply theoretical and practical tools/techniques to solve real life problems related to industry, academic institutions and research laboratories.

The project is of 2 hours/week for one (semester VI) semester duration and a student is expected to do planning, analyzing, designing, coding, and implementing the project. The initiation of project should be with the project proposal. The synopsis approval will be given by the project guides.

The project proposal should include the following:

- Title
- Objectives
- Input and output
- Details of modules and process logic
- Limitations of the project
- Tools/platforms, Languages to be used
- Scope of future application

The Project work should be either an individual one or a group of not more than three members and submit a project report at the end of the semester. The students shall defend their dissertation in front of experts during viva-voce examinations.

**VI SEMESTER**  
**(Cluster 1) Paper-VIII: Elective –B-1**  
**VISUAL BASIC PROGRAMMING**

- CO1: Understand the concept and underlying principles of Object-Oriented Programming
- CO2: Understand how object-oriented concepts are incorporated into the Visual Basic programming language
- CO3: Develop problem-solving and programming skills using OOP concept
- CO4: Understand the benefits of a well structured program
- CO5: Develop the ability to solve real-world problems through software development using GUI environment
- CO6: Develop efficient storing values in Arrays and creating Menus in VB Become familiar with the fundamentals and acquire programming skills in the Visual Basic

**VI SEMESTER**  
**(Cluster 1) Paper-VIII: Elective –B-2**  
**PHP(PERSONAL HOME PAGE)**

- CO1: Learn data types and control structures of PHP
- CO2: Explaining how to work with functions in PHP
- CO3: Explaining how to work with Arrays in PHP
- CO4: Understanding the concepts of Strings and Functions in PHP
- CO5: Understanding the working with Forms Using PHP

**VI SEMESTER**  
**(Cluster 1) Paper-VIII: Elective –B-3**  
**PROJECT WORK**

The objective of the project is to motivate them to work in emerging/latest technologies, help the students to develop ability, to apply theoretical and practical tools/techniques to solve real life problems related to industry, academic institutions and research laboratories.

The project is of 2 hours/week for one (semester VI) semester duration and a student is expected to do planning, analyzing, designing, coding, and implementing the project. The initiation of project should be with the project proposal. The synopsis approval will be given by the project guides. The project proposal should include the following:

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