COURSE STRUCTURE, SYLLABUS AND SCHEME OF EXAMINATION

FOR

BACHELOR OF COMPUTER APPLICATION (BCA)

2020-21 Onwards



Department of Computer Applications

VBS PURVANCHAL UNIVERSITY, JAUNPUR

DEPARTMENT OF COMPUTER APPLICATIONS

VBS PURVANCHAL UNIVERSITY, JAUNPUR

STUDY & EVALUATION SCHEME

BCA (Bachelor of Computer Applications)

SEMESTER V

SUB CODE	SUBJECT	L	T	P	TA/CT/ESE	TOTAL
BCA-501	WEB DESIGN	3	1	0	10/20/70	100
BCA-501	DATA MINING	3	1	0	10/20/70	100
BCA-501	.NET FRAMEWORK AND C#	3	1	0	10/20/70	100
BCA-P51	BCA PROJECT - I			3	100	100
BCA-L52	WEB DESIGN LAB	0	0	3	30/70	100
BCA-L53	.NET LAB	0	0	3	30/70	100

TOTAL - 600

WEB DESIGN BCA 501

Unit - I

Overview of Internet: Introduction to Internet and WWW, Internet protocols like TCP/IP, http, telnet and ftp, url, email, domain name, Web Browsers, Search Engines, Counters, Chat & Bulletin Board Services.

Unit - II

Principles of Web Design: Key issues to be considered in web site design.

Structure of a Web Page: Introduction to HTML, Elements of HTML syntax, Head and Body sections, Building HTML documents, Inserting text, images, hyperlinks, Backgrounds and Color Control, ordered and unordered lists, content layout & presentation.

HTML Tags: Use of Different HTML tags in web pages.

Table Handling: Table layout & presentation, constructing tables in a web page, developing a web page in a table.

Unit - III

HTML Editors & Tools: Use of different HTML editors and tools like Netscape Communicator and Microsoft Front Page etc.

Graphical and Animation Techniques: Use of Different graphical and animation tools like Abode Photoshop, Gif Animator etc.

Unit - IV

Interactivity: Client Server Model, Static & Dynamic Web pages, Creating forms, CGI, Role of Databases in web applications.

Unit - V

Web Technologies: Overview of various web technologies and their applications like Java Script, active server pages, Macromedia flash, embedding java applets in a web page etc.

Books:

- 1. C. Xavier, "World Wide Web Design with HTML", Tata McGraw Hill.
- 2. Joel Sklar, "Principles of Web Design", Web Warrior series.
- 3. Rick Dranell, "HTML4 unleashed", Techmedia Publication.
- 4. Shelly Powers, "Dynamic Web Publishing Unleashed", Techmedia.
- 5. Don Gosselin, "JavaScript", Vikas Publication
- 6. Mark Swank & Drew Kittel, "World Wide Web Database", Sams net.

DATA MINING BCA 502

UNIT-I

Introduction - What is Data mining, Data mining - important Data mining - various kind of Data mining Functionalities – Various kinds of Patterns Pattern Interesting Classification of Data mining Systems Data mining Task Primitives Integration of Data Mining System Major issues in Data Mining.

UNIT-II

Data Processing - Process the Data Descriptive Data Summarization – Measuring Central Tendency Dispersion of Data Graphic Displays of –Basic Descriptive Data Summaries Data Cleaning Data Integration and Transformation data Reduction Data Discrimination – Concept Hierarchy Generation

UNIT-III

Data Warehouse OLAP Technology An overview - Data Warehouse Multidimensional Data Model Data Warehouse Architecture Data Warehouse Implementation From Data Warehouse to Data mining

UNIT-IV

Mining – Frequent Patterns Associations Correlations - Basic Concepts Road Map Efficient Scalable Frequent Item set Mining methods Mining – Various Kinds of Association rules Analysis - Association mining to Correlation Constrain Based Association mining

UNIT-V

Applications Trends - Data mining Applications Data mining – System Products Research Prototype Additional Themes on Data Mining Social impact of Data mining Trends in Data mining.

Book:

Data Mining (Concepts and Techniques), Author : Jiawei Han and Micheline Kamber Publishers :
 Morgan Kaufmann Publishers (An imprint of Elsevier)



.NET FRAMEWORK AND C# BCA 503

Unit - I

The .Net Framework: Introduction, Common language, Run-time, Common type system, Common language specification, The base class library, The .Net class library intermediate language, Just-in-time compilation, Garbage collection

Unit - II

C# Basics: Introduction, Data types, Identifiers, Variables and Constants, C# statements, Object oriented concept, Object and classes, Array and Strings,

Unit - III

C# Using Libraries: Namespace systems, Input-output, Multi-threading, Networking and Sockets, Data handling, Windows forms, C# in Web application, Error Handling.

Unit - IV

Advanced Features using C#: Web services, Window services, Messaging reflection, COM and C#, Localization.

Unit - V

Advanced Features using C#: Distributed Application in C#, XML and C#, unsafe mode, Graphical device interface with C#, Case study.

Book:

- Shibi Panikkar and Kumar Sanjeev, "C# with .Net Framework", Firewall Media.
- Shildt, "C#: The Complete Reference", TMH
- Fergal Grimes, "Microsoft .Net for Programmers", SPD.