BCA V SEMESTER

BCA-351: Web Designing Fundamentals

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CO-1	Introduction to Internet and WWW
CO-2	Features of Web Browsers; Web Servers; Hypertext Transfer Protocol; URLs;
	Searching and Web- Casting Techniques; Search Engines and Search Tools
CO-3	Detailed Steps For Developing ,Hosting Website and Publishing on Web
CO-4	Detailed Study of HTML Tags, Features along with Practical approach to develop a
	Webpage
CO-5	How to Insert and Move Images on a Web page
CO-6	Concept of Ordered and Unordered Lists
CO-7	How to work with Frames, Forms, Menus
CO-8	How to work with Buttons like Radio Box, Check Box

BCA-352: Operating System-I

Basics Concepts of Operating System
Different Classification and Types of Operating System
Concept of System Calls, System Programs: Process Control, File Manipulation,
Device Manipulation, Information Maintenance, Communications
Basic concept of Process, Process Scheduling, Operations, PCB
How different Scheduling Algorithms work
Detailed Study of Deadlock ,Memory Management with Paging and Segmentation
Concept of Virtual Memory and Page Replacement Algorithms
File Management

BCA-353: Artificial Intelligence

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CO-1	Basic concepts and Detailed Description of AI
CO-2	How to Represent Problems in AI
CO-3	Concept of Turing Test
CO-4	Detailed discussion on Expert system and how Expert System Life Cycle Works
CO-5	How to develop an Expert system
CO-6	Various Searching Techniques in AI with Practical Approach
CO-7	Introduction to Natural Language Processing and How People Overcome Natural
	Language Problems
CO-8	Introduction to Robotics and Speech Recognition

BCA-354: Computer Networks

CO-1	Basic Concepts of Computer Networks: Types, Topologies, Network Hardware
	Components, Network Software
CO-2	Description of different models of Networks
CO-3	Concept of Analog and Digital data and signals, Transmission, Communication
	Satellites; Switching and Multiplexing; Modems and Modulation techniques
CO-4	Concept of Data Link Layer Design issues, Sliding Window Protocols and Media
	Access Control
CO-5	Introduction to LAN Technologies
CO-6	Different Types of Routing Algorithms
CO-7	Basic Network Security Issues

BCA-355: Programming Using Visual Basic

CO-1	Introduction to VB and its Environment
CO-2	Concept of Event Driven Programming Languages
CO-3	Basics of Programming
CO-4	How to convert, declare ,scope ,Lifetime of variables
CO-5	Concept of User Defined Data Types
CO-6	Operators and I/O in VB
CO-7	Description of Decision and Looping Statements
CO-8	Concept of Arrays and Procedures
CO-9	Programs in VB

BCA-356: Multimedia Tools

CO-1	Basic Concepts of Multi Media, Hyper Media, Multimedia H/W and S/W
CO-2	Different Types of Authoring Tools in Multimedia
CO-3	Concept of Images and Videos with Different Standards
CO-4	Basic Concepts of Digital Audio
CO-5	Quantization and Transmission of Audio
CO-6	Description of Different Data Compression techniques
CO-7	Detailed Study of Image Compression techniques
CO-8	Detailed Study of Video Compression techniques

BCA VI SEMESTER

BCA-361: Web Designing Using Advanced Tools

CO-1	Detailed study of Java Script Interactivity Tool
CO-2	Concept of Event handling in Java Script
CO-3	Detailed study of VB Script Interactivity Tool
CO-4	Concept of Event Handlers in VB Script
CO-5	How to Embed VB Script in HTML
CO-6	Detailed study of Active Script Pages Interactivity Tool
C0-7	Discussion of Various Techniques of Connecting to Database
C0-8	Introduction to Macromedia Flash, Macromedia Dreamweaver, PHP
C0-9	Concept of DHTHML,CSS, linking and embedding
CO-10	Detailed study of Microsoft Front Page and XML

BCA-362: Operating System-II

CO-1	Concept of Process Synchronization via single and two process solution
CO-2	Discussion of Classical Problems of Synchronization
CO-3	Concept of Deadlocks, Starvation and Semaphores
CO-4	Discussion of the Directory Structure
CO-5	Explanation of Disk Structure, Disk Management, Swap Space Management
CO-6	Detailed description of Disk Scheduling algorithms
CO-7	Concept of Network and Distributed Operating System
CO-8	Linux: Introduction, Commands, Processes, File System
CO-9	In-depth knowledge of vi Editor and Shell Programming

BCA-363: Computer Graphics

CO-1	Introduction to Computer Graphics: Interactive, Passive Graphics, Applications
CO-2	Detailed description of Display Devices and Interactive Input Devices
CO-3	Various Algorithms of Point Plotting techniques of Line, Circle, Ellipse
CO-4	Polygon Area Filling: Scan-line Fill and Flood Fill Algorithms
CO-5	Concept of Two-Dimensional Graphics Transformation ,Graphical Input
CO-6	Concept of Two Dimensional Viewing
CO-7	Various Clipping algorithms
CO-8	Concept of three dimensional graphics

BCA-364: Internet Technologies

CO-1	Introduction to Internet Services, TCP/IP,OSI Model
CO-2	Concept of WWW, URL, HTTP, Web Browsers, Chat & Bulletin Board,
	USENET & NNTP
CO-3	TCP, UDP and IP Protocols, DNS Mapping
CO-4	Mapping Internet Addresses to Physical Addresses: ARP, RARP, DHCP;
	ICMP,IGMP
CO-5	Protocols of Application layer
CO-6	Concept of FTP, TFTP, NFS, TELNET
CO-7	Voice and Video over IP: RTP, RTCP, IP Telephony and Signaling, RSVP
CO-8	Concept of Internet routing and security

BCA-365: Advanced Programming with Visual Basic

CO-1	Detailed Description of Collections
CO-2	How to work with Forms, Concept of events
CO-3	Program in VB using Forms
CO-4	How to work with menus in VB
CO-5	Discussion on Advance Controls
CO-6	How to develop Program in VB using Menus and Advance Controls
CO-7	File Handling and working with Graphics
CO-8	How to access the database and develop program in VB using Database and Advance
	Controls

BCA-366: Programming in Core Java

CO-1	Introduction to Java, JVM, Basic Language Elements, Input/Output and Structures in
	Java
CO-2	Discussion of Classes and Objects in Java
CO-3	Concept of polymorphism, string, overloading, overriding with its implementation
CO-4	Extending Classes and Inheritance in Java
CO-5	Concept of Packages and Interfaces in Java
CO-6	Use of Exception Handling in Java
CO-7	Use of applet in Java
CO-8	Programming in Java