MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester)

Session – (2023-24)

Name of the Teacher: Ms. Aashita Jain

Department: Department of Computer Science & Applications

Class: BCA III (5th Semester) Subject: BCA-16-501 (Computer Networks) Section(s): A & B

	Date (Monthly)		Topics to be Covered	Academic Activity
S.No.	From	То	Topies to se covered	Undertaken*
1.	24 th July, 2023	2023 Computer Network: Network Hardware and Software,		Lecture method, PPT, Online sources
2.	1st Aug, 2023	31st Aug, 2023	OSI Reference Model, TCP/IP reference model, Comparison of OSI with TCP/IP model. Physical Layer: Transmission media: Twisted pair, Coaxial cable, Fiber optics, Wireless Transmission (Radio, Microwave, and Infrared), Switching: Circuit Switching, Message Switching, Packet Switching & their comparisons. ISDN and its services,	*
2.	1 st Sep, 2023	2023 Length Division, MODEMS .		Lecture method,PPT, videos, PDF, class tests, Assignments
3.	1 st Oct, 2023	31st Oct, 2023	Medium Access Sub-Layer: Introduction to Static and Dynamic channel allocation, IEEE standards 802.3 UNIT-III Network Layer: Design Issues, network layer addressing, network layer datagram, IP addressed Classes. Subnetting-Sub network, Subnet mask, Routing Algorithm: Shortest Path Routing, Flooding, Broadcast and Multicast routing,	Lecture method,PPT, videos, class tests Doubt sessions, Assignments
4.	1 st Nov, 2023	Till the end of semester	Congestion control: Principles of Congestion Control, Congestion prevention policies, Leaky bucket and token bucket algorithms. UNIT-IV Application Layer: Domain Name system (DNS), DNS name space, DNS Servers, World Wide Web, HTTP, e- mail: Architecture and Services, Message Component, Multipurpose Internet Mail Extensions (MIME), Simple Mail Transfer Protocol (SMTP), Post Office Protocol (POP), Remote Login and File transfer protocol, Introduction to Network Security. Revision of Syllabus	Lecture method,PPT, videos, class tests Doubt clearing sessions, Assignments, Discussion of previous year question papers

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (BCA III: Odd Semester) 2023-24

Name of the Teacher: Ms. Deepti Sharda & Ms. Punam

Department: Department of Computer Science & Applications
Subject: BCA-16-503 (Java Programming)

Class: BCA 5th Sem
Section(s): A & B

S No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*	
	From	To			
	24 th Aug'23	31 st July'23	Java and the Internet: The Java programming language and its characteristics; Java development kit, Java run- time environment; Java compiler Fundamentals of Java: Java Vs. C++, Byte Code, Java Virtual Machine, constants, variables, data types, operators, expressions, control structures, defining class, creating objects, accessing class members, constructors, Garbage Collection, method overloading.	Lecture Method, PPT,Periodic Test, Assignments, Quiz, Online Sources	
2	1 Aug'23	31 th Aug'23	Inheritance: Different types of Inheritance, member access, using super keyword to call super class constructors, creating a multilevel hierarchy, method overriding, dynamic method dispatch, using abstract classes, using Final keyword. Interfaces: Defining an Interface, Implementing Interfaces, Variables in Interfaces, Achieving multiple inheritance using interfaces, Interface and Abstract classes.	Lecture Method, PPT,Periodic Test, Assignments, Quiz, Online Sources	
3	1st Sep'23	30 th Sep'23	Using AWT controls: Introduction to AWT, Creating GUI Applications using AWT, AWT controls: Label, TextBox, TextArea, Check Boxes, Radio Buttons, Choice lists, Understanding Layout Managers: FlowLayout, BorderLayout, GridLayout; Introduction to Event handling using Delegation Event Model. Introduction to Java Database Connectivity (JDBC): JDBC Architecture, JDBC Drivers, Java.SQL package, Connecting to the Database and performing basic database operation like Insert, Delete, Update and Select. Arrays and Strings: One-dimensional and two-dimensional Arrays, String Handling using String and StringBuffer class, String Functions. I/O Basics: streams, the predefined streams; Reading console Input, Writing console Output.	Lecture Method, PPT,Periodic Test, Assignments, Quiz, Online Sources	

4	1st Oct'23	31st Oct'23	Applet Programming: Introduction, Types of applet, Life Cycle, Incorporating an applet into web page using Applet Tag, running applets, using Graphics class and its methods to draw lines, rectangles, circles, ellipses, arcs and polygons. Exception Handling: Java Exception handling model, Types of exception, using Try and catch, Multiple Try and Catch clauses, Nested Try statements, finally block, user defined exceptions.	Periodic Test, Assignments, Quiz,
5	1 st Nov'22	18 th Nov'23	Multi-threaded Programming: The Java Thread model, the Thread class and Runnable interface, Creating a Thread using Runnable Interface and extending Thread, Creating Multiple Threads, Thread Priorities, Synchronizations: Methods, Statements, Inter Thread Communication, Deadlock, Suspending, Resuming and Stopping Threads.	Lecture Method, PPT, Periodic Test, Assignments, Quiz, Online Sources

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans				
Aug-Sep 2023 Planned the strategy to start the syllabus and reviewed of books and decided the book to be recommended		Planned the strategy to start the syllabus and reviewed different books and decided the book to be recommended		
	Oct 2023	Reviewed the topic covered & designed next month lesson plan. Discussed the MST syllabus.		
	Nov 2023	Reviewed the topic covered & designed next month lesson plan method. Designed question paper.		

^{*}Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) Case Studies etc. Other Methods adopted by the teacher – Please write the specific teaching methods.

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester)

Session – (2023-24)

Name of the Teacher/s- Dr. Mandeep K. Chawla & Dr. Navdeep Kaur

Department: Department of Computer Science & Applications

Class: BCA III Section (s): A &B

Semester: 5th **Subject:** Web Application Development using PHP(BCA-16-504)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity	
	From T			Undertaken*	
1	24 July,2023 31 Aug, 2023 Introduction to web applications: Client Side Scripting Vs Server Side Scripting, Understanding, Web Servers, Installing WAMP and configuring PHPenvironment. PHP Basics		PPT, Assignments, Demonstrations		
2	1 Sep, 2023	30 Sep, 2023	Control structures, Functions, Recursion, Library functions String Handling and string functions, Formatting Strings, Comparing and searching Strings and substrings, Sample PHP programs	PPT, Practical Assignments, Discussions, RelatedMaterial, Live demonstrations	
3	1 Oct, 2023	31 Oct, 2023	PHP Arrays and Iterative functions, Forms: Working with HTML Form controls and PHP, Super global variables, super global array PHP and Databases: Connecting to database, Making SQL queries, Executing queries	PPT, Assignments, Live demonstration of PHP, Peer Learning, Related Material	
4	1 Nov, 2023	Till theend o the semestere		Assignments, Live demonstration of PHP programs, Peer Learning, Related Material, mid-termexam	
Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lesson plans					
	July-A		nned the strategy to start the syllabus and reviewed ferentbooks and decided the book to be recommended		
	Sep-Od	pla	viewed the topic covered & designed next month lessen. Discussed the MST syllabus.		
	Nov 20		viewed the topic covered & designed next month less nmethod. Designed question paper.	on	

^{*}Any of these – (i) Lecture Method; (ii) PPT; (iii) Online Sources; (iv) Group Discussion; (v) CaseStudies etc.

Other Methods adopted by the teacher – Please write the specific teaching method

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – (2023-24)

Name of the Teacher: Ms. Aashita Jain

Department: Department of Computer Science & Applications

Class: BCA III, 6th Semester Subject: BCA-16-601(E-Commerce) _ Section(s): A & B

	Date (Monthly)		Topics to be Covered	Academic Activity	
S.No.	From	To	10 p. 100 00 00 10200	Undertaken*	
1.	Jan, 2024	31 st Jan, 2024	UNIT-I An Overview of E-Commerce: Definitions: E-commerce, E-business, difference between E-commerce and E-business, Problems with Traditional business systems, Aims of E-commerce, Types of E-commerce: B2B, B2C, C2C, B2G, G2H, G2C, Operational & Strategic benefits of E-commerce, Issues & Challenges in E-commerce. Electronic Data Interchange (EDI): Definition; Traditional versus EDI enabled system for document exchange; Components of EDI: EDI Standards, EDI Software, Communication Networks; EDI Message Structure; EDI Notification Structure; EDI in India; EDI enabled procurement process; Benefits of EDI: Direct Benefits, Strategic Benefits; EDI Implementation issues; Legal Aspects	Lecture method, PPT, Online sources, class discussion, class tests	
2.	1 st Feb, 2024	29 th Feb, 2024	UNIT-II Web based E-Commerce: Definition; Need for web based business, Steps in setting up business on Internet: Selection & registration of domain name, Website development: Planning a website, Steps for creating a website, Elements of a webpage, web authoring tools, Hosting a website: Website hosting considerations. Online Promotion tools & techniques: Getting links to your site, banner advertisements & measuring advertisement effectiveness; Web Traffic Analysis: Hits, View pages, Visits and Other web-reporting tools, various measures, What is Search Engine optimization	assignments, videos, class	
3.	1 st Mar, 2024	31st Mar, 2024	UNIT-III Electronic Payment Systems: E-cash: Purchasing & using of e-cash; Electronic Purses their loading with cash and use; E-cheque payment system; Online Third Party Verified Payment System through Credit & Debit Cards; ATM based cash disbursement system; Electronic Bill Payment System; Inter bank clearing system.		
4.	1 st Apr, 2024	Till the end of semester	UNIT-IV Mobile Commerce: Definition, Benefits of Mobile Commerce, Issues in Mobile Commerce, Mobile Commerce Framework Applications of E-Commerce & Case Studies: Applications of e-commerce, Case studies in Retailing, Banking and e-governance; Cyber Crimes: Types, Cyber Forensics, Cyber crimes and IT Act - 2000., Revision of Syllabus	Lecture method,PPT, videos, class tests Doubt clearing sessions, Assignments, Discussion of previous year question papers	

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester)

Session – (2023-24)

Name of the Teacher: Dr. Mandeep K. Chawla / Dr. Navdeep Kaur Department: Department of Computer Science & Applications Class: BCA III Section (s): A &B

Semester: 6th Subject: Application Development using VB.Net (BCA-16-602)

S. No.	S. Date No. (Monthly)		Topics to be Covered	Academic Activity to
1,00	From	To		Undertake*
1	Jan 2024	31 Jan, 2024	Visual Studio .NET IDE, .NET Framework, CLR, Introducing Controls	Lecture Method, Demonstration on PC
2	1 Feb, 2024	29 Feb, 2024	Using common controls of Toolbox andtheir properties and methods, Additional controls of Toolbox, Operators, data types, Control structures, sub/function/ event procedures, strings, control arrays	_
3	1 Mar, 2024	31 Mar, 2024	Accessing Databases with ADO.NET: making connections, Data Adapter, Data Reader and Data sets, Data Navigation and Manipulation, Data Grid view control	Lecture Method, Class test, PPT, sample applications, real- life case studies, Online Sources, project study and plan, mid-term exam
4	1 Apr, 2024	Till the end of semest er	Introduction to ASP.NET, Web Forms, Using 6 Validation Controls, State management in ASP.NET, Sessions/ Cookies/Query Strings, Introducing Web Services, Deploying Applications,	Lecture Method, PPT Online Sources, proj ect implementation, Project report making. Topics discussion, Preparing for viva voce
Depa	artmental N	Meeting to	Coordinate and Review the Monthly completion of Syllabu	is as per lessonplans
	Feb 2024		Discuss and review, prepare the next lesson plan, , MSTsyllabus and paperplanning	
Depa	artmental N	Meeting to	Coordinate and Review the Monthly completion of Syllabu	is as per lessonplans
	Mar 2024		Discuss and review, prepare the nextlesson plan	
Depa	artmental N	Meeting to	Coordinate and Review the Monthly completion of Syllabu	is as per lessonplans
	Apr 2024		Discuss and review the deviations (if any), prepare the next lesson plan. MST results review, Review the syllabus completion, Final practical Paper planning	

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester)

Session – (2023-24)

Name of the Teacher: Ms. Punam Dawgotra and Ms. Deepti Sharda

Department: Department of Computer Science & Applications

Class: BCA III Section (s): A &B

Semester: 6th**Subject:** Computer Graphics & Multimedia Applications (BCA-16-603)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*	
	From	To			
1	Jan,	31 st Jan,	Computer Graphics: A Survey of Computer Graphics:	Lecture Method,	
_	2024	2024	Computer Aided Design, Presentation Graphics, Computer art,	Reading &	
	2021	202.	Entertainment, Education and Training, Visualization, Image	Discussion,	
			Pressing, Graphical User Interfaces.	Coding	
			Overview of Graphics Systems: Video Display Devices,	Discussion,	
			Cathode	•	
			Ray Tube, CRT monitors, Flat panel displays: Plasma Panel	Demonstration	
			display, Thin-film electroluminescent displays, LED, Liquid	Online Resources	
			Crystal Displays (LCD)		
			Developing Computer Graphics Using 'C': Input-output		
			primitives, setting character and text attributes, changing line		
			styles, Using fill styles to fill images. Use these primitives to develop programs like drawing concentric circles, Ellipses, Sine		
			curves, Histograms, Pie charts and human face.		
2	1 st Feb,	29 th Feb,	Raster Scan Systems, Random Scan Systems. Graphics	Lecture Method,	
_	2024	2024	Monitors and Workstations, Input Devices, Hard-copy devices,	Reading	
			Graphics Software.	C	
				&Discussion,	
			Studying the Features and Developing Computer Graphics	Coding	
			Using Standard Graphics package	Discussion, Demonstration	
			Auto CAD: Features and applications of AutoCAD, Interface, System Requirements, The X, Y coordinate system,	Online Resources	
			Dimensioning, Drawing commands, Cleaning Up the	Omme Resources	
			drawing, Positioning Commands, Editing Commands,		
			Construction Commands, Display Commands.		
			Multimedia Applications: What is multimedia, Components of		
			Multimedia, Need of Multimedia, Features of a Multimedia		
			System, Benefits and problems of using Multimedia?		
3	1 st Mar,	31st Mar,	System Components: Multimedia system and a conventional	Lecture Method,	
	2024	2024	system, Basic System components, Subsystems and functions	Reading	
			of a Multimedia computer, Multimedia Add-on Cards.	0 D: .	
			Applications: Multimedia in the Real World, Training and	&Discussion,	
			Education, Image Processing, Multimedia in home and office Multimedia Platforms: Personal computer as a Multimedia	Demonstration, Programs	
			System, Limitations of the early	Discussion,	
			Personal Computer as a Multimedia System, The evolution of	Assignment	
			MPC, Hardware Platforms, Software Platforms. Development	Submission	
			Tools: Types of development tools, Commercial tools, Stages of		
			Multimedia Application Development.		
			Studying features and use of Multimedia authoring tools like		

			Photoshop and Macromedia Director. Photoshop- Features, Interface, Toolbox, Color models, Layers, Filters	
4	1 st Apr, 2024	Till the end of semest er	Image: Sources of image, Types of images, Basic editing operations, Introduction to Image Compression: Lossy and Lossless compression, Image file formats. Audio: Hardware for Audio, Digital Audio, Audio editing operations, MIDI, Audio file formats Video: Hardware Components of a Video System, introduction to Video compression, MPEG, Video file formats. Storage for multimedia: magnetic media, Optical media, Compact disk specifications. Macromedia Director- Features, Stage, Cast, Score, ControlPanel, Sprite, Channels, Text Inspector, Tools for creating cast members	Method, Online Resources Reading & Discussion, Programs Discussion, Student Presentation, Assignment submission

Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lessonplans						
	Feb	Discuss and review, prepare the next				
	2024	lesson plan, , MST syllabus and paper				
		planning				
Depa	artmental Meeti	ng to Coordinate and Review the Monthly comp	letion of Syllabus as per			
		lessonplans				
	Mar	Discuss and review, prepare the next				
	2024	lesson plan				
Depa	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per					
		lessonplans				
	Apr	Discuss and review the deviations (if				
	2024	any), prepare the next lesson plan. MST				
		results review, Review the syllabus				
		completion, Final practical				
		paper planning				