MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (BCA III: Odd Semester) 2022-23

Name of the Teacher: Ms. Ritu Department: Computer Science and ApplicationsClass: BCA-III (5th Sem) Subject: Computer Networks (BCA-16-501) Set

Section(s): A & B

	Date (Monthly)		Topics to be Covered	Academic Activity	
S.No.	From	То		Undertaken*	
1.	13 Aug, 2022	31 Aug, 2022	Computer Network: Network Hardware and Software,	Lecture method, PDF, Online sources, Doubt sessions, Assignments.	
2.	1 Sep, 2022	30 Sep, 2022			
3.	1 Oct, 2022	31 Oct, 2022	back-N ARQ, Selective Repeat ARQ series and	Lecture method, PDF, Online sources, Doubt sessions, Assignments	
4.	1 Nov, 2022	Till the end of semester	UNIT-IV Application Layer: Domain Name system (DNS), DNS	Lecture method, PDF, Online sources, Doubt sessions, Assignments.	

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester/Even Semester) Session – (2022-23)

Name of the Teacher: Ms. Deepti Sharda & Ms. Punam Dawgotra Department: Department of Computer Science & Applications Class: BCA 5th SemSubject: BCA-16-503 (Java Programming) Section(s): A & B

S No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*	
	From	То			
1	13 th Aug'22	31 st Aug'22	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 Sep'22	30 th Sep'22	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	1 st Oct'22	31st Oct'22	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. Exception Handling: Java Exception handling model, Types of exception, using Try and catch, MultipleTry and Catch clauses, Nested Try statements, finally block, user defined exceptions. 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:	Lecture Method, PPT, Periodic Test, Assignments, Quiz, Online Sources	

			Methods, Statements, Inter Thread Communication, Deadlock, Suspending, Resuming and Stopping Threads.	
4	1 st Nov'22	Till the end of semester	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. 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.	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 2022	Planned the strategy to start the syllabus and reviewed different books and decided the book to be recommended		
	Oct 2022	Reviewed the topic covered & designed next month lesson plan. Discussed the MST syllabus.		
	Nov 2022	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 metho

Mehr Chand Mahajan DAV College for Women, Sector – 36A, ChandigarhMonthly Teaching Plans (Odd Semester) Session – (2022-23)

Name of the Teacher/s- Mandeep K. Chawla & Ms. NavdeepKaurDepartment: Department of Computer Science &ApplicationsClass: BCA IIISection (s): A &BSection (s): A (s)

Semester: 5th

Subject: Web Application Development using PHP(BCA-16-504)

S.No.	Date (Monthly)		Topics to be Covered Academic Activity Undertaken*
	From	То	
1	13 Aug, 2022	31 Aug 2022	Introduction to web applications: Client SidePPT,Scripting Vs Server Side Scripting, Understanding, Web Servers, Installing WAMP and configuring PHPenvironment. PHP BasicsDemonstrations
2	1 Sep 2022	30 Sep 2022	 Control structures, Functions, Recursion, Library functions String Handling and string functions, Formatting Strings, Comparing and searching Strings and substrings, Sample PHP programs Live demonstrations
3	1 Oct, 2022	31 Oct 2022	PHP Arrays and Iterative functions, Forms:PPT,Working with HTML Form controls and PHP,Assignments,Super global variables, super global arrayLivePHP and Databases: Connecting to database,Making SQL queries, Executing queriesMaking SQL queries, Executing queriesLiveMaterialMaterial
4	1 Nov, 2022	Till the end of the semest er	Databases, Editing data with an HTML formLiveMaintaining User State: Introduction todemonstration of
Depar lesson		ing to Coo	ordinate and Review the Monthly completion of Syllabus as per
	^	ep 2022	Planned the strategy to start the syllabus and reviewed differentbooks and decided the book to be recommended
	Oct 2022		Reviewed the topic covered & designed next month lesson plan.Discussed the MST syllabus.
Nov 2022		022	Reviewed the topic covered & designed next month lesson planmethod. Designed question paper.

*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

Mehr Chand Mahajan DAV College for Women, Sector – 36A, ChandigarhMonthly Teaching Plans (Even Semester) Session – (2022-23)

Name of the Teacher: Ms. RituDepartment: Department of Computer Science & ApplicationsClass: BCA IIISection (s): A &BSubject: E-Commerce (BCA-16-601)

Semester: 6th

S. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken	
	From	То		*	
1.	16 Jan, 2023	31 Jan, 2023	An Overview of E-Commerce: Definitions: E-commerce, E-business, difference between E-commerce and E- business, Problems with Traditional business systems,	Lecture method, PDF, Online sources, Doubt sessions, Assignments.	
2.	1 Feb, 2023	28 Feb, 2023	UNIT -	sessions,	
3.	1 Mar, 2023	31 March, 2023	UNIT - III Electronic Payment Systems: E-cash: Purchasing & usingof e-cash: Electronic Purses their loading with cash	Lecture method, PDF, Online sources, Doubt sessions, Assignments	
4.	1 Apr, 2023	Till the end ofsemester	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	Lecture method, PDF, Online sources, Doubt sessions, Assignments	

Mehr Chand Mahajan DAV College for Women, Sector - 36A, ChandigarhMonthly Teaching Plans (Even Semester)

Session – (2022-23)

Name of the Teacher: Dr. Mandeep K. Chawla / 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.	Date (Monthly)		Topics to be Covered	Academic Activity toUndertake*	
	From	То			
1	16 Jan 2023	31 Jan 2023	Visual Studio .NET IDE, .NET Framework,CLR, Introducing Controls	Lecture Method, Demonstration on PC	
2	1 Feb 2023	28 Feb 2023	Using common controls of Toolbox and their properties and methods, Additional controls of Toolbox, Operators, data types, Control structures, sub/function/ event procedures, strings, control arrays	Lecture Method, Class tests, practical demos, Sample programs discussion	
3	1 Mar 2023	31 Mar 2023	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 2023	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 OnlineSources, project implementation, Project report making. Topics discussion, Preparing for viva voce	
Depa	rtmental N	Meeting to	Coordinate and Review the Monthly comp lessonplans	letion of Syllabus as per	
	Feb 2023		Discuss and review, prepare the next lesson plan, , MSTsyllabus and paperplanning		
Depa	rtmental N	Meeting to	Coordinate and Review the Monthly comp lessonplans	letion of Syllabus as per	
	Mar 2023		Discuss and review, prepare the next lesson plan		
Depa	Departmental Meeting to Coordinate and Review the Monthly completion of Syllabus as per lessonplans				
Apr 2023			Discuss and review the deviations (if any),prepare the next lesson plan. MST results review, Review the syllabus completion, Final practical paperplanning		

Mehr Chand Mahajan DAV College for Women, Sector – 36A, ChandigarhMonthly Teaching Plans (Even Semester) Session – (2022-23)

Name of the Teacher: Ms. Punam Dawgotra and Ms. Deepti ShardaDepartment: Department of Computer Science & ApplicationsClass: BCA IIISection (s): A &BSubject: Computer Graphics & Multimedia Applications (BCA-16-603)

Semester: 6th

S.No.	(Monthly)		(Monthly) Covered	
	From	То		
1	16 th Jan, 2023	31 st Jan, 2023	Computer Graphics: A Survey of Computer Graphics : Computer Aided Design, Presentation Graphics, Computer art, Entertainment, Education and Training, Visualization, Image Pressing, Graphical User Interfaces. Overview of Graphics Systems: Video Display Devices, Cathode Ray Tube, CRT monitors, Flat panel displays: Plasma Panel display, Thin-film electroluminescent displays, LED, Liquid 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.	Lecture Method, Reading & Discussion, Coding Discussion, Demonstration Online Resources
2	1 st Feb, 2023	28 th Feb, 2023	 Raster Scan Systems, Random Scan Systems. Graphics Monitors and Workstations, Input Devices, Hard-copy devices, Graphics Software. Studying the Features and Developing Computer Graphics Using Standard Graphics package Auto CAD: Features and applications of AutoCAD, Interface, System Requirements, The X, Y coordinate system, Dimensioning, Drawing commands, Cleaning Up the 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? 	Lecture Method, Reading &Discussion, Coding Discussion, Demonstration Online Resources
3	1 st Mar, 2023	31 st Mar, 2023	System Components: Multimedia system and a conventional system, Basic System components, Subsystems and functions of a Multimedia computer, Multimedia Add-on Cards. Applications: Multimedia in the Real World, Training and Education, Image Processing, Multimedia in home and office Multimedia Platforms: Personal computer as a Multimedia System, Limitations of the early Personal Computer as a Multimedia System, The evolution of MPC, Hardware Platforms, Software Platforms. Development Tools: Types of development tools, Commercial tools, Stages of Multimedia Application Development. Studying features and use of Multimedia authoring tools like	Lecture Method, Reading &Discussion, Demonstration, Programs Discussion, Assignment Submission

			Photoshop and Macromedia Director. Photoshop- Features,	
			Interface, Toolbox, Color models, Layers, Filters	
	t at t			
4	1 st Apr,	Till the	Image: Sources of image, Types of images, Basic editing	Method,
	2023	end of	operations, Introduction to Image Compression: Lossy and	Online Resources
		semest	Lossless compression, Image file formats. Audio: Hardware for	Reading
		er	Audio, Digital Audio, Audio editing operations, MIDI, Audio	&
			file formats Video: Hardware Components of a Video System,	Discussion,
			introduction to Video compression, MPEG, Video file formats.	Programs
			Storage for multimedia: magnetic media, Optical media,	Discussion,
			Compact disk specifications. Macromedia Director- Features,	Student
			Stage, Cast, Score, ControlPanel, Sprite, Channels, Text	Presentation,
			Inspector, Tools for creating cast members	Assignment
				submission
	Departm	ontal Mooti	g to Coordinate and Review the Monthly completion of Syllabu	is as ner
	Departin		lessonplans	is as per
	F	eb	Discuss and review, prepare the next	
		2023	lesson plan, , MST syllabus and paper	
			planning	
	Departm	ental Meeti	g to Coordinate and Review the Monthly completion of Syllabu	is as ner
	Depurtin		lessonplans	
		Mar	Discuss and review, prepare the next	
		2023	lesson plan	
	Departm	ental Meeti	ng to Coordinate and Review the Monthly completion of Syllabu	is as per
	•		lessonplans	1
		Apr	Discuss and review the deviations (if	
		2023	any), prepare the next lesson plan. MST	
			results review, Review the syllabus	
			completion, Final practical	
			paper planning	