(Lesson Plan)

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester-5th) 2021-22

Name of the Teacher: Ms. Monika Department: Computer Science and Applications Class: BCA-III (5th Sem) Subject: Computer Networks (BCA-16-501)

	Date (Monthly)		Topics to be Covered	Academic Activity	
S.No.	From	То		Undertaken*	
1.	20 Aug, 2021	31 Aug, 2021	Computer Network: Network Hardware and Software, Network Topologies, Uses of Computer Networks,	Lecture method, PDF, Online sources, Doubt sessions, Assignments.	
2.	1 Sep, 2021	30 Sep, 2021	 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 	PDF, Online sources, Doubt sessions,	
3.	1 Oct, 2021	31 Oct, 2021	ISDN and its services, Multiplexing: Frequency Division, Time Division, Wave Length Division, MODEMS. UNIT-II Data Link Layer: Design Issue, Framing Errors Detection and Correction Code: Check sum, CRC, Hamming code, Data Link Protocols for noisy and noiseless channels, Sliding Window Protocol: Stop and Wait ARQ, Go- back-N ARQ, Selective Repeat ARQ series and continuous series.	Lecture method, PDF, Online sources, Doubt sessions, Assignments	
4.	1 Nov, 2021	30 Nov, 2021	TINITE III	Lecture method, PDF, Online sources, Doubt sessions, Assignments.	
5.	1 Dec, 2021	Till the end of semester	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.	Lecture method, PDF, Online sources, Doubt sessions, Assignments.	

MCM DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Odd Semester/Even Semester) Session – (2020-21)

Name of the Teacher: Ms. Deepti Sharda

Department: Department of Computer Science & ApplicationsClass: BCA 5th SemSubject: BCA-16-503 (Java Programming)

Section(s): A & B

S.No.		Date onthly)	Topics to be Covered	Academic Activity Undertaken*
	From	To	-	Onucitascii
1	11 th Aug'21	31 st Aug'21	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'21	30 th Sep'21	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
2	1 st Oct'21	31st Oct'21	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, Multiple Try 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.	
3	1 st Nov'21	18th Nov'21	Applet Programming: Introduction,	Lecture Method, PPT,
			Types of applet, Life Cycle,	Periodic Test,
			Incorporating an applet into web page	Assignments, Quiz,
			using Applet Tag, running applets, using	Online Sources
			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.	
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*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, Chandigarh Monthly Teaching Plans (Odd Semester) Session – (2021-22)

Name of the Teacher/s- Mandeep K. Chawla & Ms. Navdeep KaurDepartment: Department of Computer Science & ApplicationsClass: BCA IIISection (s): A &BSemester: 5thSubject: Web Application Development using PHP(BCA-16-504)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*	
	From	То			
1	Aug, 2022	31 Aug 2022		PPT, Assignments, Demonstrations	
2	1 Sep 2022	30 Sep 2022	functionsStringHandlingandstringfunctions,AFormattingStrings,ComparingandsearchingIStringsandsubstrings,SamplePHPprogramsI	PPT, Practical Assignments, Discussions, Related Material, Live demonstrations	
3	1 Oct, 2022	31 Oct 2022	Working with HTML Form controls and PHP, Super global variables, super global array PHP and Databases: Connecting to database	PPT, Assignments, Live demonstration of PHP, Peer Learning, Related Material	
4	1 Nov, 2022	30 Nov 2022	Databases, Editing data with an HTML form Maintaining User State: Introduction to Cookies, Setting time in a cookie with PHP, Creating and Deleting a cookie Creating sessions. Working with	Assignments, Live demonstration of PHP programs, Peer Learning, Related Material, mid-term exam	
Depar	rtmental Meet	ing to Coo	rdinate and Review the Monthly completion of Syllabus	as per lesson plans	
	Aug-Se	p 2022	Planned the strategy to start the syllabus and reviewed or books and decided the book to be recommended	different	
	Oct 2022		Reviewed the topic covered & designed next month lesson Discussed the MST syllabus.		
	Nov 2022		Reviewed the topic covered & designed next month lesson method. Designed question paper.	plan	

*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 method

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – (2021-22)

Name of the Teacher: Ms. Anupreet KalsiDepartment: 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	
5. 10.	From	То		Undertaken*	
1.	24 Feb, 2022	31 March, 2022	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	sources, Doubt sessions, Assignments.	
2.	1 April, 2022	30 April, 2022	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	Doubt sessions,	
3.	1 May, 2022	31 May, 2022	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; Interbank clearing system. UNIT-IV Mobile Commerce: Definition, Benefits of Mobile Commerce, Issues in Mobile Commerce, Mobile Commerce Framework	Lecture method, PDF, Online sources, Doubt sessions, Assignments	
4.	1 June, 2022	15 June, 2022	Applications of E-Commerce & Case Studies : Applications of e-commerce, Case studies in Retailing, Banking and e-	Lecture method, PDF, Online sources, Doubt sessions, Assignments	

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

Session – (2021-22)

Name of the Teacher:Dr. Mandeep K. Chawla / Navdeep KaurDepartment:Department of Computer Science & ApplicationsClass:BCA IIISubject:Section (s):A &BSubject:Application Development using VB.Net (BCA-16-602)

Semester: 6th

S.		ate	Topics to be Covered	Academic Activity to	
No.	(Monthly)		-	Undertake*	
	From	То			
1	22 Feb	28 Feb	Visual Studio .NET IDE, .NET Framework,	Lecture Method	
	2022	2022	CLR, Introducing Controls	Demonstration on PC	
2	1 Mar	31 Mar	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 Apr	30 Apr	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 May	25 May	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, project implementation, Project report making	
5	1 Jun	10 Jun	REVISION	Topics discussion, Preparing	
				for viva voce	
Depa	irtmental N	leeting to (Coordinate and Review the Monthly comple plans	etion of Syllabus as per lesson	
	28 Feb		Discuss and review, prepare the next		
	2022		lesson plan		
Dena		l Aeeting to (Coordinate and Review the Monthly comple	tion of Syllabus as per lesson	
Depe			plans		
	Mar		Discuss and review, prepare the next		
	2022		lesson plan		
Depa	rtmental N	leeting to	Coordinate and Review the Monthly comple	tion of Syllabus as per lesson	
	٨٣٣		plans Discuss and review the deviations (if any),		
	Apr				
	2022		prepare the next lesson plan, MST		
Dem	rtmontol N	l Acotina ta f	syllabus and paper planning	tion of Sullabus as non losser	
Deba	in timental N	neeting to t	Coordinate and Review the Monthly comple plans	suon of Syllabus as per lesson	
	May		MST results review, Review the syllabus		
	2022		completion, Final practical paper		
	2022		planning		
			pianning		

Mehr Chand Mahajan DAV College for Women, Sector – 36A, Chandigarh Monthly Teaching Plans (Even Semester) Session – (2021-22)

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

Semester: 6th

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*	
	From	То			
1	26 th Feb, 2022	31 st Mar, 2022	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 Apr, 2022	30 Apr , 2022	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 May , 2022	31 st May , 2022	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.	Lecture Method, Reading & Discussion, Demonstration, Programs Discussion, Assignment Submission	

			Photoshop and Macromedia Director. Photoshop- Features, Interface, Toolbox, Color models, Layers, Filters	
4	1 st June , 2022	15 th Jun , 2022	 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, Control Panel, Sprite, Channels, Text 	Method, Online Resources Reading & Discussion, Programs Discussion, Student Presentation, Assignment submission
			Inspector, Tools for creating cast members	

*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 method