

(Lesson Plan)
MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans (Odd Semester-5th)
2019-20

Name of the Teacher: Ms. Sandeep Kaur

Dept: Department of Computer Science and Applications

Class: BCA-3

Subject: Computer Networks (BCA-16-501)

Section(s): A&B

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	24 th July, 2019	31 st Aug, 2019	N/w Hardware and Software, Topologies, OSI Model, TCP/IP model, Transmission medias, Circuit Switching	Lecture Method, PPT, Class Test
2.	1 st Sept, 2019	30 th Sept, 2019	ISDN, Multiplexing, Framing, Error detection & Correction, Data Link and Sliding Protocols, Channel Allocation, Network layer addressing, Sub-networks, Modems.	Class Test ,PPT, Lecture Method, Doubt Session
3.	1 st Oct , 2019	30 th Oct, 2019	Routing Algorithms, Congestion Control and it's policies.	PPT, Lecture Method, Reviewed the benchmark decided for the previous month and made plan for upcoming month
4.	1 st Nov, 2019	30 th Nov, 2019	DNS, HTTP, e-mail, MIME, SMTP, POP, Remote Login and FTP, IEEE Standards 802.3	Class Test, Discussion of previous year question papers.

**Monthly Teaching Plans (Odd Semester 5th Semester)
Session – (2019-20)**

Name of the Teacher/s- Ms. Priyanka & Dr. Geetika Singh

Department- Computer Science and Applications

Class- BCA-III

Section-(s) A & B

Subject-Java Programming (BCA-16-503)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	24 th July, 2019	31 st Aug, 2019	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, 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. I/O Basics: streams, the predefined streams; Reading console Input, Writing console Output.	Lecture Method, Class Test, Practical demonstration Assignment, Online Sources
2.	1 st Sept, 2019	30 th Sept, 2019	Packages: Types of packages, defining a package, Importing packages, Access protection Interfaces: Defining an Interface, Implementing Interfaces, Variables in Interfaces, Achieving multiple inheritance using interfaces, Interface and Abstract classes. Arrays and Strings: One-dimensional and two-dimensional Arrays, String Handling using String and String Buffer class, String Functions. 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.	Lecture Method, Practical demonstration, Assignments, Online Sources, Oral/ Written Test
3.	1 st Oct , 2019	30 th Oct, 2019	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: Methods, Statements, Inter Thread Communication, Deadlock, Suspending, Resuming and Stopping Threads. Using AWT controls: Introduction to AWT, Creating GUI Applications using AWT, AWT controls: Label, TextBox, TextArea, Check Boxes, Radio Buttons, Choice lists.	Lecture Method, Class Test, Practical demonstration, Assignment, Oral/ Written Test
4.	1 st Nov, 2019	30 th Nov, 2019	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, Assignments, Practical demonstration, Discussions, Oral/ Written Test

Lesson Plan (2019-20)
MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans (Odd Semester)

Name of the Teacher/s Ms Punam/Dr. Mandeep K. Chawla

Department Computer Science & Applications

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

Class BCA-V Sem

Section (s): A & B

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	26 th July 2019	31 st July 2019	Introduction to web applications: Client Side Scripting Vs Server Side Scripting, Understanding Web Servers: Local Servers and Remote Servers, Installing WAMP and configuring PHP environment,	Lecture Method, Reading & Discussion, Notes-giving
2	1 st August 2019	31 st August 2019	Static website Vs Dynamic website development, Embedding PHP code in Web Pages PHP Basics: Tokens, Variables, Variable Scope, Constants, Data Types, number handling in PHP, operands, operators, expressions, operator precedence, comments, echo and Print. Control structures: Branching statements: if-else, ternary operator, switch; looping statements: while, do-while, for; file inclusion Statements	Lecture Method, Presentation, Demonstration on PC, practical assignments
3	1 st Sept 2019	30 th Sept 2019	Functions: Function definition, Creating and invoking user-defined functions, Formal parameters versus actual parameters, Function and variable scope, Recursion, Library functions String Handling: interpolation with curly braces, characters and string indexes, string operators, heredoc, string functions, Formatting, Comparing and searching Strings and substrings Arrays: PHP Arrays, Creating Arrays, Accessing Array elements, Multidimensional Arrays, Inspecting Arrays, Deleting from Arrays, Iterating with each() and foreach(), Iterative functions: current(), next(), prev(), reset(), end()	Lecture Method, Reading & Discussion, Presentation, Demonstration on PC, Sample Programs Discussion, Class Test, Assignment submission
4	1 st Oct. 2019	31 st Oct 2019	Forms: Working with HTML Form controls and PHP, Super global variables, super global array, importing user input, Accessing user input Integrating PHP and Database: Connecting to database, Making SQL queries, Executing queries, Fetching data sets, Integrating Forms and Databases: Basic form submission to a database, editing data with an HTML form	Lecture Method, Online Resources Reading & Discussion, Presentation, Demonstration on PC, Real life minor project study, Assignments
5	1 st Nov 2019	19 th Nov 2019	Maintaining User State: Introduction to Cookies, Setting time in a cookie with PHP, Deleting a cookie, creating session cookie, Introduction to sessions, Starting a session, Registering Session variables, working with session variables, Destroying session, passing session Ids , encoding and decoding session variables, increase session expire time, working of session without cookie. Working with File System: Understanding PHP file permissions, Opening and closing a file, File reading and writing functions, File system and directory functions	Lecture Method, Presentation, Demonstration on PC, Real life Project Development, Referring online resources for project coding, Demonstration of Students projects, Sample Questions Discussion

(Lesson Plan)
MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans (Even Semester-6th)
2019-20

Name of the Teacher: SandeepKaur

Dept: Department of Computer Science and Applications

Subject: E-Commerce (BCA-16-601)

Class: BCA 6thSem

Section(s): A&B

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	9 th Jan 2020	31 st Jan 2020	E-Commerce, E-Business, Types of E-Commerce, Challenges and Aims of E-Commerce	Lecture Method, PPT
2.	1 st Feb 2020	29 th Feb 2020	Traditional vs EDI enabled system, Components of EDI, Need for web based business, Steps in setting up business, Elements of Webpage, Webhosting Considerations	Class Test, dictated notes from online sources, PPT
3.	1 st Mar 2020	31 st Mar 2020	Getting links to your site, Web Traffic Analysis, web-reporting tools, SEO, E-cash, ATM, Online Third Party System	Assignment given, Lecture Method, PPT
4.	1 st Apr 2020	30 th Apr 2020	M-Commerce, Mobile Commerce Framework, Case studies in retailing, e-governance, Cyber Crimes and IT Act-2000	Discussion of previous year questions, Class Test of Unit-3, Concluded with the syllabus

MCM DAV College for Women, Sector – 36A, Chandigarh
Monthly Teaching Plans (Even Semester)
Session–(2019-20)

Name of the Teachers: Punam/Mandeep K. Chawla

Dept.: Department of Computer Sci. & Appl.

Class: BCA 6thSem

Subject: Application Development using VB.Net (BCA-16-602) **Section (s):** A & B

S. No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1	9 th Jan 2020	31 st Jan 2020	Visual Studio .NET IDE, .NET Framework, CLR, Using common controls of Toolbox and their properties and methods	Lecture Method, PPT, Demonstration on PC
2	1 st Feb 2020	29 th Feb 2020	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 st Mar 2020	31 st Mar 2020	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
4	1 st Apr 2020	30 th Apr 2020	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, preparing for viva voce

**Monthly Teaching Plans (Even Semester 6th Semester)
Session–(2019-20)**

Name of the Teachers- Dr. Geetika / Ms. Priyanka

Department- Computer Science and Application

Class- BCA-6thSem

Section-(s) - A & B

Subject- Computer Graphics &Multimedia Applications (BCA-16-603)

S.No.	Date (Monthly)		Topics to be Covered	Academic Activity Undertaken*
	From	To		
1.	9 th Jan 2020	31 st Jan 2020	Introduction to Computer Graphics, Application of Computer graphics, Display Device	PPT, Lecture Method
2.	1 st Feb 2020	29 th Feb 2020	CRT, TFT, LCD, Plasma panel, Hard Copy Device, Input device, Computer Graphics using C, I/O Primitives, program using primitives	PPT, Lecture Method, Class Test, Practical demonstration on TURBO C3
3.	1 st Mar 2020	31 st Mar 2020	Multimedia, Component of multimedia, Benefits & Problems of Multimedia, multimedia Add on Cards, Applications, AutoCad, Drawing commands, Editing Commands, Positioning Commands, Hardware Platform, Software Platform	Lecture Method, Practical demonstration on TURBO C3, Practical demonstration on AutoCad
4.	1 st Apr 2020	30 th Apr 2020	Image, Lossy & Lossless Compression, Video Compression, Storage Media,Photoshop, Macromedia Director	Lecture Method, Practical demonstration on Photoshop, Practical demonstration on Macromedia Director