

SHAHEED SMARAK P.G. GOVT. COLLEGE TIGAON (FARIDABAD)

LESSON PLAN FOR SESSION 2021-22. (Even Semester)

Subject Name with code and semester:--- Structured System Analysis & Design . BCA - 2nd sem
BCA - 109

Teacher Name:--- Dr. Rekha Rani

MONTH	TOPIC
March 2022	Intro to System, Defi, char. of system, elements, Types of system, SDLC, Role of system Analyst, Analysts user Interface, systems planning & initial investigation, Intro. Bases for planning in system analysis, Sources of project.
April 2022	Project requests, Initial investigation, fact finding. Info. gathering, info. gathering tool. Fact analysis, Determination of feasibility. Structured analysis. Tools of structured analysis. DFD, Data Dictionary, Flow chart, Gantt charts, Decision tree, table, structured Eng. Pros and cons.
May 2022	feasibility Study. System Design - logical & Physical design. I/O. design, form design, form control.
June 2022	System testing, Test plan, testing techniques, Quality assurance, goals in system life cycle, system Implementation, process of Implementation, system evaluation, System maintenance, and its type, System documentation, forms of documentation.

Rekha Rani
Signature

SHAHEED SMARAK P.G. GOVT. COLLEGE TIGAON (FARIDABAD)

LESSON PLAN FOR SESSION 2021-22. (Even Semester)

Subject Name with code and semester:--- Data Structure III

Teacher Name:--- Dr. Rekha Rani

MONTH	TOPIC
21 st March - 31 st March 2022	Tree - header node, Binary search tree, searching, insertion & deletion in Binary Tree, AVL Trees, Insertion & Deletion in AVL Search Tree.
April-2022	m-way search tree, searching, Insertion & deletion in an m-way search tree, B-Trees, Searching, Insertion & deletion in B-Trees, B+ tree, Huffman's Algo, General Trees, Graphs:- Marshall's Algorithm for shortest path, Dijkstra Algo. for shortest path.
May 2022	operations on graphs, Traversal of graph. Topological sorting, Sorting:- Internal & External sorting, Radix sort, Quick sort, Heap sort, Merge sort, Tournament Sort, Searching - linear search, Binary search
June 2022	Merging, comparison of various sorting and searching algo on the basis of their complexity. Files:- Physical storage devices and their characteristics, Attributes of a file viz fields, records, Fixed and variable length records, Primary and Secondary keys, Classification of files, file operations, comparisons of various types of files, file organization - Serial, Sequential, Index-sequential, Random, Inverted, Multilist, Hashing.

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LESSON PLAN FOR SESSION 2021-22, (Even Semester)

Subject Name with code and semester:--- Data Structure, 16MCS22C1
using C , 16MCS22C1

Teacher Name:--- Dr. Rekha Rani

MONTH	TOPIC
March 21 st - March 31 st , 2022.	Programming fundamentals: Algo. development, Techniques of Problem Solving, Flow chart, decision table, structured prog. concept, top-down design, development of efficient program, prog. correctness, debugging and testing of prog. algo for searching, sorting.
April 2022	- Analysis of Algo, Programming in C! - Intro to C, data type, constants and variable, Structure of a C program, operators and Expressions, control statements, Arrays, sparse arrays, strings, pointers, functions, Recursions.
May-2022	Stacks & Queues! - Intro on stack, stack application, Infix, Postfix, Prefix, Evaluation of Postfix expression, conversion from infix to Postfix, Intro and primitive operation on queues, D-queues, Priority queues, Circular queues, linked lists -
June 2022	Trees - Binary Trees, operations, AVL Trees, B-Trees. File structure! - Physical storage devices All files organizations. Sorting! - Bubble, Insertion, Selection, merge Heap, Quick sort. Linear & Binary search Hashing

Signature,
Rekha

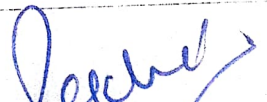
SHAHEED SMARAK P.G. GOVT. COLLEGE TIGAON (FARIDABAD)

LESSON PLAN FOR SESSION 2021-22. (Even Semester)

Subject Name with code and semester:--- .Net, BCA VI sem

Teacher Name:--- Dr. Rekha Rani

MONTH	TOPIC
March 2022	Building blocks of .Net platform (the CLR, CTS, and CLS) features of .Net, Deploying the .Net Runtime, Architecture of .Net platform Intro to namespaces & type distinction, Types & objects in .Net, the evolution of web development.
April 2022	Class Libraries in .Net, Intro to Assemblies & Manifest in .Net, Metadata & attributes, intro to C#, Char. of C#. Data types:- Value types, reference types, default values, constants, variables, Scope of variables, boxing and unboxing.
May 2022	Operations & Expressions:- Arithmetic, relational, logical, bitwise, special operators, evolution of expression, operator precedence & associativity, control constructs in C#: decision making, loops, classes & Methods; classes, methods, constructors, destructors, overloading of operators & functions.
June 2022	Inheritance & Polymorphism:- Visibility control, abstract class, & Methods, Sealed classes, & Methods, interfaces, Advanced features of C#: Exception handling & error handling, automatic memory Mgt. I/O. C.


Signature

S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- BCA Sem VI

Subject Name with code:- **Object Technologies & Prog. using Java** BCA307

Teacher Name:---Dr. Anju Sharma

MONTH	TOPIC
March	Object Oriented Methodology-1: Paradigms of Programming Languages, Evolution of OOMethodology, Basic Concepts of OO Approach, Comparison of Object Oriented andProcedure Oriented Approaches, Benefits of OOPs, Introduction to Common OO Language,Applications of OOPs .
April	Object Oriented Methodology-2: Classes and Objects, Abstraction and Encapsulation,Inheritance, Method Overriding and Polymorphism. Java Language Basics: Introduction To Java, Basic Features, Java Virtual Machine Concepts, Primitive Data Type And Variables, Java Operators, Expressions, Statements andArrays. Object Oriented Concepts: Class and Objects-- Class Fundamentals, Creating objects ,Assigning object reference variables; Introducing Methods, Static methods, Constructors ,Overloading constructors; This Keyword; Using Objects as Parameters, Argument passing,Returning objects , Method overloading, Garbage Collection, The Finalize () Method. Inheritance and Polymorphism: Inheritance Basics, Access Control, Multilevel Inheritance,Method Overriding, Abstract Classes, Polymorphism, Final Keyword.
May	. Packages : Defining Package, CLASSPATH, Package naming, Accessibility of Packages ,using Package Members. Interfaces: Implementing Interfaces, Interface and Abstract Classes, Extends andImplements together . Exceptions Handling : Exception , Handling of Exception, Using try-catch , CatchingMultiple Exceptions , Using finally clause , Types of Exceptions, Throwing Exceptions,Writing Exception Subclasses.
June	Multithreading : Introduction , The Main Thread, Java Thread Model, Thread Priorities,Synchronization in Java, Inter thread Communication. I/O in Java : I/O Basics, Streams and Stream Classes ,The Predefined Streams, Readingfrom, and Writing to, Console, Reading and Writing Files , The Transient and VolatileModifiers , Using Instance of Native Methods. Strings and Characters : Fundamentals of Characters and Strings, The String Class , String Operations , Data Conversion using Value Of () Methods , String Buffer Class and Methods.

S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- BCA Sem VI
Subject Name with code:- BCA – 306: E-Commerce
Teacher Name:---Dr. Anju Sharma

MONTH	TOPIC
March	Electronic Commerce: Overview of Electronic Commerce, Scope of Electronic Commerce, Traditional Commerce vs. Electronic Commerce, Impact of E-Commerce, Electronic Markets, Internet Commerce, e-commerce in perspective
April	Application of E Commerce in Direct Marketing and Selling, Obstacles in adopting E-Commerce Applications; Future of ECommerce. Value Chains in electronic Commerce, Supply chain, Porter's value chain Model, Inter Organizational value chains, Strategic Business unit chains, Industry value chains. Security Threats to E-commerce: Security Overview, Computer Security Classification, Copyright and Intellectual Property, security Policy and Integrated Security, Intellectual Property Threats, electronic Commerce Threats, Clients Threats, Communication Channel Threats, server Threats.
May	Implementing security for E-Commerce: Protecting E-Commerce Assets, Protecting Intellectual Property, Protecting Client Computers, Protecting E-commerce Channels, Insuring Transaction Integrity, Protecting the Commerce Server. Electronic Payment System: Electronic Cash, Electronic Wallets, Smart Card, Credit and Change Card.
June	Business to Business E-Commerce: Inter-organizational Transitions, Credit Transaction Trade Cycle, a variety of transactions. Electronic Data Interchange (EDI): Introduction to EDI, Benefits of EDI, EDI Technology, EDI standards, EDI Communication, EDI Implementation, EDI agreement, EDI security.

S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- MSc. Comp. Sc. Sem IV

Subject Name with code:- JAVA PROGRAMMING 17MCS24C1

Teacher Name:---Dr. Anju Sharma

MONTH	TOPIC
March	Introduction: Java History, Java features Java and Internet, Java and World Wide Web, Java Program Structure, Java Tokens, Java Virtual Machine, Data Types, Operators and Expressions, Decision Making and Branching, looping
April	Classes and Methods, Inheritance: Using Existing Classes, Class Inheritance, Choosing Base Class, Access Attributes, types of Inheritance, Abstract Classes, Using Final Modifier. Polymorphism: Types of polymorphism. Packages & Interfaces: Understanding Packages, Defining a Package, Packaging up Your Classes, Adding Classes from a Package to Your Program, Understanding CLASSPATH, Access Protection in Packages, Concept of Interface. Exception Handling: Types of Exceptions, Dealing with Exceptions, Exception Objects.
May	Multithreading Programming: Understanding Threads, The Main Thread, Creating a Thread, Creating Multiple Threads, Thread Priorities, Synchronizat ion, Deadlocks Inter-thread communication Input/Output in Java: I/O Basic, Byte and Character Structures, I/O Classes, Reading Console.Creating Applets in Java: Applet Basics, Applet Architecture, Applet Life Cycle, Simple Applet Display Methods, Requesting Repaint ing, Using The Status Window, The HTML APPLET TagPassing Parameters to Applets.
June	AWT: Working with AWT Controls, AWT Classes, Window Fundamentals, Working with Frame,Creating a Frame Window in an Applet, Displaying Information Within a Window. Working with Graph: Working with Graphics, Working with Color, Setting the Paint Mode,Working with Fonts, Exploring Text and Graphics, Layout Managers and Menus.

S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- MSc. Comp.Sc. Sem IV

Subject Name with code:- INTERNET AND WEB DESIGNING 17MCS24DB1

Teacher Name:---Dr. Kavita Sharma

MONTH	TOPIC
March	Introduction: Internet, Evolution of Internet, Types of Computer Network: LAN, WAN, MAN Internet Protocol, Internet Services, WWW, Working of Internet, Introduction to Intranet, DNS working, Configuring Internet Connection, Internet Connection Concepts, Connecting LAN to Internet; Client-Server environment: Single User, Multi User, Server, Workstation, Computer
April	Network; Network Topologies; Network Protocols, E-Mail Concepts – Configuring E-Mail Program, Sending and Receiving Files through E-Mail, Fighting Spam, Sorting Mail, E-Mail mailing lists and avoiding E-Mail viruses. Searching and Web Casting Technique: Popular web servers, Web Browsers; basic features of browsers: bookmarks, cookies, progress indicators, customization of browsers, browsing tricks, next generation web browsing, search engines; Hypertext Transfer Protocol (HTTP), URL. Internet Tools: Online Chatting, Messaging, and Conferencing Concepts, Usenet newsgroup concepts: Reading usenet newsgroups, Instant messaging, Web-Based chat rooms and discussion boards, Voice and Video conferencing, Streamlining Browsing, Keeping track of Favorite Web Sites, Web Security, Privacy, and Site-Blocking.
May	Web Designing using HTML: Understanding HTML, XHTML Syntax and Semantics, HTML Elements: Paragraph, Lists, Tables, Images, Frames, Forms, Linking to other Web Pages: External and Internal linking, E-mail Links; Working with Background colors and Images; Marquee; Text Alignment and Text Formatting, Advanced Layout with Tables; Publishing HTML Pages.
June	Cascading Style Sheets: Introduction, Inline, Internal, External CSS, Linking CSS to Web Page. Client-Side Programming: Introduction to JavaScript, Basic Syntax, Variables and Data types, Statements, Operators, Literals, Functions, Objects, Arrays. XML: Relation between XML and HTML, Goals of XML, Structure and Syntax of XML, WellFormed XML, DTD and its Structure, tree structures in data organization, Searching with XPath.

S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- BCA Sem IV

Subject Name with code:- BCA – 206 : WEB DESIGNING

Teacher Name:---Dr. Kavita Sharma

MONTH	TOPIC
March	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic features; Web Browsers; Web Servers; Hypertext Transfer Protocol,
April	Overview of TCP/IP and its services; URLs; Searching and Web-Casting Techniques; Search Engines and Search Tools; Web Publishing: Hosting your Site; Internet Service Provider; Web terminologies, Phases of Planning and designing your Web Site; Steps for developing your Site; Choosing the contents; Home Page; Domain Names, Front page views, Adding pictures, Links, Backgrounds, Relating Front Page to DHTML. Creating a Website and the Markup Languages (HTML, DHTML);
May	. Web Development: Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML command Tags; Creating Links; Headers; Text styles; Text Structuring; Text colors and Background; Formatting text; Page layouts;
June	Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes; DHTML: Dynamic HTML, Features of DHTML, CSSP(cascading style sheet positioning) and JSSS(JavaScript assisted style sheet), Layers of netscape, The ID attributes, DHTML events.

S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- BCA Sem II

Subject Name with code:- BCA-106 : 'C' PROGRAMMING

Teacher Name:---Dr. Kavita Sharma

MONTH	TOPIC
March	Overview of C: History of C, Importance of C, Elements of C: C character set, identifiers and keywords, Data types, Constants and Variables, Assignment statement, Symbolic constant, Structure of a C Program, printf(), scanf() Functions,
April	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, shorthand assignment operators, conditional operators and increment and decrement operators, Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity. Decision making & branching: Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder, switch statement, goto statement. Decision making & looping: For, while, and do-while loop, jumps in loops, break, continue statement, Nested loops.
May	. Functions: Standard Mathematical functions, Input/output: Unformatted & formatted I/O function in C, Input functions viz. getch(), getche(), getchar(), gets(), output functions viz., putchar(), puts(), string manipulation functions. User defined functions: Introduction/Definition, prototype, Local and global variables, passing parameters, recursion.
June	Arrays, strings and pointers: Definition, types, initialization, processing an array, passing arrays to functions, Array of Strings. String constant and variables, Declaration and initialization of string, Input/output of string data, Introduction to pointers. Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime. Algorithm development, Flowcharting and Development of efficient program in C.

TEACHING PLAN 2021-22 (EVEN SEMESTER)

(APRIL 2022 to JULY 2022)

Name :-Parul Department:- Computer Science

Class:- M.Sc(CS)- 2nd Sem

Sub:- Software Engineering

Month					
APRIL	Software crisis, Software engineering Approach and Challenges,	Software development process models with comparison: Waterfall, Prototype, Time boxing and Spiral Models, RAD Model and Automation through software environments	Quality Standards like ISO 9001, SEI-CMM, Structured Analysis, Behavioral & non-behavioral requirements, Software requirement specification: components & characteristics,	Function point metric, Cost estimation, static, Single & multivariate models, COCOMO Model, Putnam Resource Allocation Model,	Risk management, project scheduling, personnel planning, team structure, Software configuration management
MAY	quality assurance, project monitoring, Empirical, Fundamentals, problem partitioning & abstraction, design methodology,	Function Oriented Design, Cohesion, Coupling & their classification, User Interface Design, Detailed design,	Choosing Programming Language, Characteristics of Program, Avoiding Dead Codes	Program Metrics: Size Estimation; Complexity metric (McCabe's Cyclomatic Complexity), Halsted Theory, Function Point Analysis.	Impracticality of Testing all Data and Paths, Levels of testing, Functional vs. Structural testing, Static and Dynamic Test ing Tools,
JUNE	Regression testing, Mutation Test ing, Stress Testing; Validation Vs. verification.	Source Code Translation, Program Restructuring, Data Re-Engineering, Reverse Engineering.	Maintaining Product Integrity, Change Management, Version Control, Configuration accounting,	Reviews, Walkthrough, Inspection, Configuration Audits	Reliability Models (JM, GO, MUSA Markov), Limitations of Reliability Models.
JULY	Revision and Doubts.				

TEACHING PLAN 2021-2022 (EVEN SEMESTER)

(Apr 2022 to July 2022)

Name:- Mrs. Parul

Department: Computer Science

Class:- M.Sc (CS)-2nd sem

Subject:- Computer Networks(16MCS22C4)

Month					
April	Introduction to Computer Network: Types of Networks, Network Topologies.	OSI and TCP/IP Reference Models; Comparison of Models.	Digital Vs. Analog communication; Parallel and Serial Communication; Synchronous, Asynchronous and Isochronous Communication;	Data Communications Concepts: Communication modes: simplex, half duplex, full duplex; Multiplexing	Transmission media: Wired- Twisted pair, Coaxial cable, Optical Fiber. Wireless transmission: Terrestrial, Microwave, Satellite, Infrared. UNIT TEST
May	Communication Switching Techniques: Circuit Switching, Message Switching, Packet Switching.	Data Link Layer Fundamentals: Framing, Basics of Error Detection, Forward Error Correction, Cyclic Redundancy	Check codes for Error Detection, Flow Control, Media Access Protocols: ALOHA,	Carrier Sense Multiple Access (CSMA), CSMA with Collision Detection (CSMA/CD), Token Ring, Token Bus. ASSIGNMENT	High-Speed LAN: Standard Ethernet, Fast Ethernet, Gigabit Ethernet.
June	10G; Wireless LANs: IEEE 802.11, Bluetooth. Network Layer: IP Addressing and Routing, IPv4 (Header Format and Services), ARP	ICMP (Error Reporting and Query message); IPv6 (Header Format and Addressing). Transport Layer: Process-to-Process Delivery: UDP,	TCP; Connection Management by TCP; Basics of Congestion Control.	Application Layer: Domain Name System (DNS); SMTP; HTTP; WWW.	Network Security: Security Requirements and attacks; Cryptography: Symmetric Key (DES, AES).
July	Public Key Cryptography (RSA); Firewall.				

Teacher's Signature

TEACHING PLAN 2021-22 (EVEN SEMESTER)

(April 2022 to July 2022)

Class:- BCA 2ND YEAR

Sub:- Software Eng.

Name :-Parul Department:- Computer Science

Month					
April	Introduction: Software Crisis, Software Processes & Characteristics.	Software life cycle models, Waterfall, Prototype, Evolutionary and Spiral Models.	Software Requirements Analysis & Specifications: Engineering, Requirement Elicitation Techniques like FAST, OFD, requirements analysis using DFD	Data dictionaries & ER Diagrams, Requirements documentation, Nature of SRS, Characteristics & organization of SRS.	TEST AND REVISION
May	Software Management Concepts: The Management spectrum, The People The Problem, The Process, The Project.	Software Project Planning: Size Estimation like lines of Code & Function Count.	Cost Estimation Models, COCOMO, Risk Management.	TEST AND REVISION	PRESENTATION ON Cost Estimation Models.
June	Software Design: Cohesion & Coupling, Classification of Cohesiveness & Coupling.	Software Design: Cohesion & Coupling, Classification of Cohesiveness & Coupling.	Function Design, Object Oriented Design, Software Metrics: What & Why, Token Count, Halstead Software Science Measures.	Design Metrics, Data Structure Metrics Software Implementation: Relationship between design and implementation, programming issues and support environment, Coding the procedural design, Good coding style.	Test and revision.

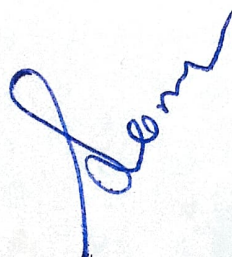
S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- BCA SEM II

Subject Name with code:- LOGICAL ORGANIZATION OF COMPUTER-II BCA 107

Teacher Name:---Dr. Seema Phogat

MONTH	TOPIC
March	Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK, T type
April	Master-Slave flip-flops. State table, state diagram and state equations. Flip-flop excitation tables Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input Parallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO) and shift registers. Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters
May	Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM, Magnetic and Optical Storage devices, Flash memory, I/O Devices and their controllers.
June	Instruction Design & I/O Organization: Machine instruction, Instruction set selection, Instruction cycle, Instruction Format and Addressing Modes. I/O Interface, Interrupt structure, Program-controlled, Interrupt-controlled & DMA transfer, I/O Channels, IOP.



S.S. GOVT. P.G. COLLEGE, TIGAOON (KARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- **Misc Comp Sc. Sem IV**
 Subject Name with code :- **MULTIMEDIA AND ITS APPLICATIONS 17MC524DAJ**

Teacher Name :- **Dr. Seema Phogat**

MONTH	TOPIC
March	Introduction : Definition of multimedia, Multimedia Basics, Where to use Multimedia, Multimedia Elements, Multimedia Application, Virtual Reality, Delivering Multimedia, Multimedia Workstation Architecture, High resolution Graphic displays, Network architecture for Multimedia systems.
April	Evolving Technologies for Multimedia Systems: Hypermedia Documents, Hypertext - HyperSpeech - HDTV and UDTV, 3D Technology. Multimedia Software: Overview of Multimedia Software Tools - Open Source Replacements - Multimedia Authoring - Some Useful Editing and Authoring Tools - VRML, Text, Image and Sound Fundamentals: About Fonts and Face, Hypermedia and Hypertext, Images Making Still Images, Bitmaps - 1 bit images - 8-bit gray level images - 8-bit color images - Dithering - 24 bit color images - Vector Drawing - Vector-Drawn Objects vs. Bitmaps, Sound: MIDI Audio - MIDI vs. Digital Audio: Multimedia System Sounds: Adding Sound to Your Multimedia Project, Audio Recording Animation: The Power of Motion- Principles of Animation - Animation by Computer - Animation Techniques, Types of Animation, Data Compression: Need for Data compression - General Data compression Scheme - Compression standards - Non-lossy compression for images - Lossy compression for Photographs and video. Hardware Vs Software Compression, Basics of Binary image compression Data and File Format Standards: Popular File Formats - RTF, RIFF, GIF, PNG, TIFF, MIDI, JPEG, JFIF, AVI, WAV, BMP, WMF, MIX, MPEG standards - TWA, AI. Multimedia input/output Technologies: Limitations of Traditional input devices - Multimedia input output devices - PEN input - Working of Electronic Pen - Video and image display systems - Video display technology standards; CRT - display terminology, Flat panel display system. Making Multimedia: The Stages of a Multimedia Project, Creativity, Organization, Communication - Hardware - Software - Text Editing and Word Processing Tools - OCR Software - Painting and Drawing Tools, 3-D Modeling and Animation, Authoring Systems - Making Instant Multimedia - Types of Authoring Tools.
May	
June	

Seema

S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- MSc. Comp Sc. Sem II

Subject Name with code:- OBJECT ORIENTED PROG. USING C++ 16MCS22C2

Teacher Name:---Dr. Sonam

MONTH	TOPIC
March	Object Oriented Programming Concepts: Procedural Language and Object Oriented approach. Characteristics of OOP: Objects, classes, Encapsulation, Data Abstraction, Inheritance, Polymorphism, Dynamic Binding, Message Passing. Structure of C++ program: Data-types, Variables, Static Variables, Operators in C++,
April	Arrays, Strings, Structure, Functions, Recursion, Control Statements. Classes: Class, object, Memory Allocation for Objects, memory layout of objects, private, public, protected member functions, static members. Constructors: Features, types, dynamic constructor, Parameterized constructors; destructors. Memory management: Dynamic Memory allocation: new, delete, Object Creation at Run Time; This Pointer.
May	Inheritance: Derived Class and Base Class, Different types of Inheritance, Overriding member function, Public and Private Inheritance, Ambiguity in Multiple inheritance, Virtual Inheritance, Abstract Class. Polymorphism: Definition, operator overloading, Overloading Unary and Binary Operators, Function overloading, Virtual function, Friend function, Static function.
June	Exception handling: Throwing, Catching, Re-throwing an exception, specifying exceptions; processing unexpected exceptions; Exceptions when handling exceptions, resource capture and release. Templates: Introduction; Class templates; Function templates; Overloading of template function, namespaces. Introduction to STL: Standard Template Library: benefits of STL; containers, adapters, iterators, vector, lists.

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S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- BCA Sem IV

Subject Name with code:- BCA-208: Object Oriented Programming Using C++

Teacher Name:---Dr. Sonam

MONTH	TOPIC
March	Object Oriented Programming Concepts : Procedural Language and Object Oriented approach, Characteristics of OOP, user defined types, polymorphism and encapsulation. Getting started with C++: syntax, data types, variables, string, function, namespace and exception, operators
April	, flow control, recursion, array and pointer, structure . Abstracting Mechanism: classes, private and public, Constructor and Destructor , member function, static members, references; Memory Management: new, delete, object copying, copy constructor, assignment operator, this input/output
May	. Inheritance and Polymorphism: Derived Class and Base Class, Different types of Inheritance, Overriding member function, Abstract Class, Public and Private Inheritance, Ambiguity in Multiple inheritance , Virtual function, Friend function, Static function.
June	Exception Handling: Exception and derived class, function exception declaration, unexpected exception, exception when handling exception, resource capture and release. Template and Standard Template Library: Template classes, declaration, template functions, namespace, string, iterators, hashes, iostreams and other types.

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S.S. Govt. P.G. COLLEGE TIGAON (FARIDABAD)
LESSON PLAN FOR SESSION 2021-22.

Course Name with semester :- BCA Sem VI

Subject Name with code:- BCA-308 : Artificial Intelligence

Teacher Name:---Dr.Sonam

MONTH	TOPIC
March	Overview of A.I: Introduction to AI, Importance of AI, AI and its related field, AI techniques, Criteria for success. Problems, problem space and search: Defining the problem as a state space search,
April	Production system and its characteristics, Issues in the design of the search problem Heuristic search techniques : Generate and test, hill climbing, best first search technique, problem reduction, constraint satisfaction Knowledge Representation: Definition and importance of knowledge, Knowledge representation, Various approaches used in knowledge representation, Issues in knowledge representation. Using Predicate Logic : Representing Simple Facts in logic, Representing instances and is a relationship, Computable function and predicate.
May	Natural language processing : Introduction syntactic processing, Semantic processing, Discourse and pragmatic processing. Learning: Introduction learning, Rote learning, Learning by taking advice, Learning in problem solving, Learning from example-induction, Explanation based learning.
June	Expert System: Introduction, Representing using domain specific knowledge, Expert system shells.

Sonam

SHAHEED SMARAK P.G. GOVT. COLLEGE TIGAON (FARIDABAD)

LESSON PLAN FOR SESSION 2021-22. (Even Semester)

Subject Name with code and semester:---SAD- BBAN 602, BBA 6th Semester

Teacher Name:--- Dr. Neelam Bhardwaj

MONTH	TOPIC
March	System and characteristics Components, classification of system, SDLC, Case tools for Analysts
April	Role of System Analyst ER Data Models feasibility study, DFDs, Database definition, structure chart Form Design, I/O Design
May	Data Dictionary, Decision tables, Decision Tree Logical design to physical Implementation
June	Distributed Data Processing and Real time system, Designing distributed database Event Based Real Time Analysis Tools, state Transition Diagrams

Signature
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SHAHEED SMARAK P.G. GOVT. COLLEGE TIGAON (FARIDABAD)

LESSON PLAN FOR SESSION 2021-22. (Even Semester)

Subject Name with code and semester:---DBMS-BBAN405, BBA 4th Sem

Teacher Name:--- Dr. Neelam Bhardwaj

MONTH	TOPIC
March	Data Versus Information, Record, File Data Dictionary, DBA Functions & Responsibility File Oriented system
April	DBMS Architecture, types, Data Independence, Mapping
May	Database Security firewall Database Recovery Distributed
June	Data warehouse Data Mining Multimedia Database Mobile Database Spatial Database

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SHAHEED SMARAK P.G. GOVT. COLLEGE TIGAON (FARIDABAD)

LESSON PLAN FOR SESSION 2021-22. (Even Semester)

Subject Name with code and semester:---

BBB22nd Sem, BBAN 204

Teacher Name:---

Dr. Neelam Bhardwaj

MONTH	TOPIC
March	Computer's History, Basic Anatomy, operating system, Input Devices
April	Output Devices, Memory, Types of Computer, Hardware & Software, Networking, Devices, Virus and firewalls.
May	IT, WWW, Search engine, Web Browser, IP Address, Web Hosting, web publishing, Internet Application Computer Application
June	Information system, types of Information system multimedia Multimedia Application, Web Applications of multimedia

Signature

Neelam

SHAHEED SMARAK P.G. GOVT. COLLEGE TIGAON (FARIDABAD)

LESSON PLAN FOR SESSION 2021-22. (Even Semester)

Subject Name with code and semester:--- E-Commerce - BBAN 605, BBA 6th

Teacher Name:--- Dr. Neelam Bhargava

MONTH	TOPIC
March	E-commerce nature, Advantage Categories, Designing, Developing and deploying the system One to one enterprise
April	Technology for online Business - internet IT infrastructure, Middleware contexts, Online Payment Partic Money, laws relating to online transaction
May	E-commerce applications in manufacturing, wholesale, retail, Service Sector
June	Virtual existence concepts & Advantage Designing and e-commerce model for a middle level, security in e-commerce, Digital Signature Data Encryption

Signature Neelam