# Lesson Plans
## of
## M. Sc.(cs)

# April 2023

# K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD

## LESSON PLAN FOR THE SESSION 2022-23

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| **Name of the professor:** | **Dr. Neha Jain** |
| **Class And Section:** | **M.Sc. (CS) First Year (2ⁿᵈ Sem)** |
| **Subject:** | **DATA STRUCTURES USING C** |

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| Day 1 | Introduction to data structures |
| Day 2 | Algorithm development |
| Day 3 | Techniques of problem solving |
| Day 4 | Flowchart |
| Day 5 | Decision table |
| Day 6 | Structured programming concepts |
| Day 7 | Top-down design |
| Day 8 | Development of efficient program |
| Day 9 | Program correctness |
| Day 10 | Debugging and Testing of programs |
| Day 11 | Debugging and Testing of programs |
| Day 12 | Algorithm for searching |
| Day 13 | Sorting (exchange and insertion) |
| Day 14 | Sorting (exchange and insertion) |
| Day 15 | Analysis of algorithm |
| Day 16 | Frequency count |
| Day 17 | Time space tradeoff |
| Day 18 | Test of Unit - 1 |
| Day 19 | Introduction to C |
| Day 20 | Data type |
| Day 21 | Constants and variable |
| Day 22 | Constants and variable |
| Day 23 | Data link layer fundamentals: Framing |
| Day 24 | Structure of a C program |
| Day 25 | Operators and Expressions |
| Day 26 | Operators and Expressions |
| Day 27 | Control statements |
| Day 28 | Sequencing |
| Day 29 | Alteration and Iteration |
| Day 30 | Alteration and Iteration |
| Day 31 | Arrays |
| Day 32 | Representation of single and multidimensional arrays |
| Day 33 | Representation of single and multidimensional arrays |
| Day 34 | Sparse arrays - lower and upper triangular matrices |
| Day 35 | Sparse arrays - lower and upper triangular matrices |
| Day 36 | Tri-diagonal matrices |
| Day 37 | String and Pointers |
| Day 38 | String and Pointers |
| Day 39 | Functions |
| Day 40 | Functions |

| Day 41 | Recursion |
|---|---|
| Day 42 | Introduction and primitive operations on stack |
| Day 43 | Introduction and primitive operations on stack |
| Day 44 | Stack application: Infix, Postfix, Prefix expressions |
| Day 45 | Stack application: Infix, Postfix, Prefix expressions |
| Day 46 | Stack application: Infix, Postfix, Prefix expressions |
| Day 47 | Evaluation of Postfix expression |
| Day 48 | Conversion from Infix to Postfix |
| Day 49 | Conversion from Infix to Postfix |
| Day 50 | Introduction and primitive operation on Queues |
| Day 51 | D-queues and priority Queues |
| Day 52 | D-queues and priority Queues |
| Day 53 | Circular Queue |
| Day 54 | Test of unit 2 |
| Day 55 | Introduction to linked lists |
| Day 56 | Implementation of linked lists |
| Day 57 | Implementation of linked lists |
| Day 58 | Operations such as traversal |
| Day 59 | Insertion |
| Day 60 | Deletion |
| Day 61 | Searching |
| Day 62 | Two-way lists |
| Day 63 | Test of unit 3 |
| Day 64 | Introduction and terminology of Trees |
| Day 65 | Traversal of Binary Trees |
| Day 66 | Recursive algorithms for tree operations such as Traversal |
| Day 67 | Insertion, Deletion |
| Day 68 | Threaded Binary Trees |
| Day 69 | Binary search trees; Avl Trees, B Tress |
| Day 70 | Binary search trees; Avl Trees, B Tress |
| Day 71 | Physical storage devices and their characteristics |
| Day 72 | Constituents of a file viz. Fields |
| Day 73 | Records, fixed and variable length records |
| Day 74 | Primary and secondary keys |
| Day 75 | File operations, basic file system operations |
| Day 76 | File organizations: serial sequential |
| Day 77 | Index sequential |
| Day 78 | Direct, inverted, multi list |
| Day 79 | Bubble sort, insertion sort |
| Day 80 | Selection sort, merge sort |
| Day 81 | Heap sort |
| Day 82 | Quick sort |
| Day 83 | Linear search |
| Day 84 | Binary search |
| Day 85 | Hashing function |
| Day 86 | Collision handling methods |
| Day 87 | Test of unit 4 |
| Day 88 | Revision |
| Day 89 | Revision |
| Day 90 | Revision of previous year question paper |

# K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD

## LESSON PLAN FOR THE SESSION 2022-23

**Name of the  professor: Ms. Sandhya Chaudhary**

**Class And Section:**     **M.sc(cs) first  year**
**Subject:**                      **Object oriented programming laungaguge**

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|---|---|
| Day 1 | Object Oriented Programming Concepts: Procedural Language and Object Oriented approach. |
| Day 2 | Procedural Language and Object Oriented approach. |
| Day 3 | Procedural Language and Object Oriented approach. |
| Day 4 | Characteristics of OOP: Objects, classes, Encapsulation, Data Abstraction, Inheritance,,Polymorphism, Dynamic Binding, Message Passing. |
| Day 5 | Characteristics of OOP: Objects, classes, Encapsulation, Data Abstraction, Inheritance,,Polymorphism, Dynamic Binding, Message Passing. |
| Day 6 | Characteristics of OOP: Objects, classes, Encapsulation, Data Abstraction, Inheritance,,Polymorphism, Dynamic Binding, Message Passing. |
| Day 7 | Structure of C++ program: Data-types. |
| Day 8 | Data-types. |
| Day 9 | Variables, Static Variables, |
| Day 10 | Static Variables |
| Day 11 | Static Variables |
| Day 12 | Operators in C++ |
| Day 13 | Operators in C++ |
| Day 14 | Arrays |
| Day 15 | Arrays |
| Day 16 | Strings |
| Day 17 | Strings |
| Day 18 | Structure. |
| Day 19 | Structure. |
| Day 20 | Functions, Recursion, |
| Day 21 | Functions, Recursion, |
| Day 22 | Control Statements |
| Day 23 | Control Statements |
| Day 24 | Classes: Class, object, Memory Allocation for Objects. |
| Day 25 | Memory Allocation for Objects. |
| Day 26 | memory layout of objects, private, public,protected member functions, static members. |
| Day 27 | memory layout of objects, private, public,protected member functions, static members. |
| Day 28 | memory layout of objects, private, public,protected member functions, static members. |
| Day 29 | Constructors: Features, types, dynamic constructor,Parameterized constructors; destructors. |
| Day 30 | Constructors: Features, types, dynamic constructor,Parameterized constructors; destructors. |
| Day 31 | Constructors: Features, types, dynamic constructor,Parameterized constructors; destructors. |
| Day 32 | Memory management: Dynamic Memory allocation: new, delete, Object Creation at Run Time; |
| Day 33 | Class test |
| Day 34 | Memory management: Dynamic Memory allocation: new, delete, Object Creation at Run Time; |

| Day 35 | Memory management: Dynamic Memory allocation: new, delete, Object Creation at Run Time; |
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| Day 36 | Assignment |
| Day 37 | Memory management: Dynamic Memory allocation: new, delete, Object Creation at Run Time; |
| Day 38 | Memory management: Dynamic Memory allocation: new, delete, Object Creation at Run Time; |
| Day 39 | Memory management: Dynamic Memory allocation: new, delete, Object Creation at Run Time; |
| Day 40 | This Pointer. |
| Day 41 | Inheritance: Derived Class and Base Class, |
| Day 42 | Different types of Inheritance, Overriding member |
| Day 43 | Different types of Inheritance, Overriding member |
| Day 44 | Different types of Inheritance, Overriding member |
| Day 45 | function, Public and Private Inheritance, Ambiguity in Multiple inheritance, |
| Day 46 | function, Public and Private Inheritance, Ambiguity in Multiple inheritance, |
| Day 47 | Virtual Inheritance, |
| Day 48 | Abstract Class. |
| Day 49 | Polymorphism: Definition, operator overloading, Overloading Unary and Binary Operators. |
| Day 50 | Polymorphism: Definition, operator overloading, Overloading Unary and Binary Operators. |
| Day 51 | Polymorphism: Definition, operator overloading, Overloading Unary and Binary Operators. |
| Day 52 | Function overloading, |
| Day 53 | Function overloading, |
| Day 54 | Virtual function, Friend function, |
| Day 55 | Virtual function, Friend function, |
| Day 56 | Static function |
| Day 57 | Static function |
| Day 58 | Exception handling: Throwing, Catching, Re-throwing an exception, |
| Day 59 | Throwing |
| Day 60 | Catching, |
| Day 61 | Re-throwing |
| Day 62 | Re-throwing |
| Day 63 | exception, |
| Day 64 | specifying exceptions;processing unexpected exceptions; Exceptions when handling exceptions. |
| Day 65 | specifying exceptions;processing unexpected exceptions; Exceptions when handling exceptions. |
| Day 66 | specifying exceptions;processing unexpected exceptions; Exceptions when handling exceptions. |
| Day 67 | specifying exceptions;processing unexpected exceptions; Exceptions when handling exceptions. |
| Day 68 | resource capture andrelease. |
| Day 69 | resource capture andrelease. |
| Day 70 | Templates: Introduction; Class templates; |
| Day 71 | ntroduction; Class templates; |
| Day 72 | Function templates; Overloading of template function,,namespaces. |
| Day 73 | Class test |
| Day 74 | Function templates; Overloading of template function,,namespaces. |
| Day 75 | Overloading of template function,,namespaces |
| Day 76 | Overloading of template function,,namespaces |
| Day 77 | Introduction to STL: Standard Template Library: benefits of STL; |
| Day 78 | Standard Template Library: |
| Day 79 | benefits of STL; |
| Day 80 | benefits of STL; |
| Day 81 | STL |
| Day 82 | Assignment |
| Day 83 | containers |
| Day 84 | containers |

| Day 85 | adapters, |
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| Day 86 | adapters, |
| Day 87 | iterators, |
| Day 88 | iterators, |
| Day 89 | vector, lists |
| Day 90 | vector, lists |

# K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD

## LESSON PLAN FOR THE SESSION 2022-23

**Name of the professor: Ms. NEETU**

**Class And Section: MSc.-first year**
**Subject: - SOFTWARE ENGINEERING – (16MCS22C3)**

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|---|---|
| Day 1 | Software crisis |
| Day 2 | Software engineering Approach and Challenges |
| Day 3 | Software engineering Approach and Challenges |
| Day 4 | Software development process models with comparison: Waterfall model |
| Day 5 | Software development process models with comparison: Waterfall model |
| Day 6 | Prototype model |
| Day 7 | Prototype model |
| Day 8 | Time boxing model and Spiral Models |
| Day 9 | Time boxing model and Spiral Models |
| Day 10 | Time boxing model and Spiral Models |
| Day 11 | RAD Model |
| Day 12 | RAD Model |
| Day 13 | Automation through software environments. , Quality Standards like ISO 9001, SEI-CMM |
| Day 14 | Automation through software environments. , Quality Standards like ISO 9001, SEI-CMM |
| Day 15 | Automation through software environments. , Quality Standards like ISO 9001, SEI-CMM |
| Day 16 | Structured Analysis. |
| Day 17 | Structured Analysis. |
| Day 18 | Behavioral & non-behavioral requirements |
| Day 19 | Behavioral & non-behavioral requirements |
| Day 20 | Behavioral & non-behavioral requirements |
| Day 21 | Software requirement specification: components & characteristics |
| Day 22 | Software requirement specification: components & characteristics |
| Day 23 | Software requirement specification: components & characteristics |
| Day 24 | Function point metric |
| Day 25 | Function point metric |
| Day 26 | Cost estimation, static, Single & multivariate models |
| Day 27 | Cost estimation, static, Single & multivariate models |
| Day 28 | Cost estimation, static, Single & multivariate models |
| Day 29 | COCOMO model |
| Day 30 | COCOMO model |
| Day 31 | Putnam Resource Allocation Model |
| Day 32 | Putnam Resource Allocation Model |
| Day 33 | Risk management, project scheduling, personnel planning, team structure. |
| Day 34 | Risk management, project scheduling, personnel planning, team structure. |
| Day 35 | Risk management, project scheduling, personnel planning, team structure. |
| Day 36 | Risk management, project scheduling, personnel planning, team structure. |
| Day 37 | Software configuration management, quality assurance, project monitoring, Empirical |
| Day 38 | Software configuration management, quality assurance, project monitoring, Empirical |
| Day 39 | Software configuration management, quality assurance, project monitoring, Empirical |
| Day 40 | Revision |
| Day 41 | Test |
| Day 42 | Fundamentals, problem partitioning & abstraction, design methodology |
| Day 43 | Fundamentals, problem partitioning & abstraction, design methodology |
| Day 44 | Fundamentals, problem partitioning & abstraction, design methodology |
| Day 45 | Fundamentals, problem partitioning & abstraction, design methodology |
| Day 46 | Function Oriented Design, Cohesion, Coupling & their classification |

| Day 47 | Function Oriented Design, Cohesion, Coupling & their classification |
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| Day 48 | Function Oriented Design, Cohesion, Coupling & their classification |
| Day 49 | User Interface Design, Detailed design, Information flow metric |
| Day 50 | User Interface Design, Detailed design, Information flow metric |
| Day 51 | Choosing Programming Language, Characteristics of Program |
| Day 52 | Choosing Programming Language, Characteristics of Program |
| Day 53 | Avoiding Dead Codes, and Program Metrics: Size Estimation. |
| Day 54 | Avoiding Dead Codes, and Program Metrics: Size Estimation. |
| Day 55 | Avoiding Dead Codes, and Program Metrics: Size Estimation. |
| Day 56 | Complexity metric (McCabe's Cyclometic Complexity), Halsted Theory |
| Day 57 | Complexity metric (McCabe's Cyclometic Complexity), Halsted Theory |
| Day 58 | Complexity metric (McCabe's Cyclometic Complexity), Halsted Theory, Function Point Analysis |
| Day 59 | Revision |
| Day 60 | Test |
| Day 61 | Impracticality of Testing all Data and Paths, Levels of testing |
| Day 62 | Impracticality of Testing all Data and Paths, Levels of testing |
| Day 63 | Functional vs. Structural testing, Static and Dynamic Testing Tools. |
| Day 64 | Functional vs. Structural testing, Static and Dynamic Testing Tools. |
| Day 65 | Functional vs. Structural testing, Static and Dynamic Testing Tools. |
| Day 66 | Regression testing, Mutation Testing, Stress Testing; Validation Vs. verification |
| Day 67 | Regression testing, Mutation Testing, Stress Testing; Validation Vs. verification |
| Day 68 | Regression testing, Mutation Testing, Stress Testing; Validation Vs. verification |
| Day 69 | Regression testing, Mutation Testing, Stress Testing; Validation Vs. verification |
| Day 70 | Source Code Translation, Program Restructuring |
| Day 71 | Source Code Translation, Program Restructuring |
| Day 72 | Data Re-Engineering, Reverse Engineering. |
| Day 73 | Data Re-Engineering, Reverse Engineering. |
| Day 74 | Maintaining Product Integrity |
| Day 75 | Maintaining Product Integrity |
| Day 76 | Change Management, Version Control |
| Day 77 | Change Management, Version Control |
| Day 78 | Configuration accounting: Reviews |
| Day 79 | Walkthrough |
| Day 80 | Inspection |
| Day 81 | Configuration Audits |
| Day 82 | Configuration Audits |
| Day 83 | Reliability Models (JM, GO, MUSA Markov), Limitations of Reliability Models |
| Day 84 | Reliability Models (JM, GO, MUSA Markov), Limitations of Reliability Models. |
| Day 85 | Reliability Models (JM, GO, MUSA Markov), Limitations of Reliability Models. |
| Day 86 | Doubt |
| Day 87 | Test |
| Day 88 | Discussion of Previous Year Question Paper |
| Day 89 | Discussion of Previous Year Question Paper |
| Day 90 | Discussion of Previous Year Question Paper |

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| **Name of the professor: Ms. Kamiya Chugh** | |
| **Class And Section:**      **M.Sc.(CS) First Year (2<sup>nd</sup> Sem)** | |
| **Subject:**               **Computer Networks** | |

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|---|---|
| Day 1 | Introduction to Computer Network |
| Day 2 | Types of Networks –LAN & WAN |
| Day 3 | Types of Networks - MAN |
| Day 4 | Network Topologies |
| Day 5 | Network Topologies |
| Day 6 | OSI Model |
| Day 7 | OSI Model |
| Day 8 | OSI and TCP/IP |
| Day 9 | OSI and TCP/IP |
| Day 10 | Comparison of Models. |
| Day 11 | Comparison of Models. |
| Day 12 | Data Communications Concepts: Digital Vs. Analog communication |
| Day 13 | Data Communications Concepts: Digital Vs. Analog communication |
| Day 14 | Parallel and Serial Communication |
| Day 15 | Parallel and Serial Communication |
| Day 16 | Synchronous, Asynchronous and Isochronous Communication |
| Day 17 | Synchronous, Asynchronous and Isochronous Communication |
| Day 18 | Communication Switching Techniques: Circuit Switching |
| Day 19 | Message Switching |
| Day 20 | Packet Switching |
| Day 21 | Test of Unit - 1 |
| Day 22 | Data Link Layer Fundamentals: Framing |
| Day 23 | Data Link Layer Fundamentals: Framing |
| Day 24 | Basics of Error Detection |
| Day 25 | Basics of Error Detection |
| Day 26 | Forward Error Correction |
| Day 27 | Forward Error Correction |
| Day 28 | Cyclic Redundancy Check codes for Error Detection |
| Day 29 | Cyclic Redundancy Check codes for Error Detection |
| Day 30 | Flow Control |
| Day 31 | Flow Control |
| Day 32 | Media Access Protocols: ALOHA |
| Day 33 | Media Access Protocols: ALOHA |
| Day 34 | Carrier Sense Multiple Access (CSMA) |
| Day 35 | CSMA with Collision Detection (CSMA/CD) |
| Day 36 | CSMA with Collision Detection (CSMA/CD) |
| Day 37 | Token Ring |
| Day 38 | Token Bus |
| Day 39 | High-Speed LAN: Standard Ethernet |
| Day 40 | Fast Ethernet |

| Day 41 | Gigabit Ethernet |
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| Day 42 | 10G |
| Day 43 | Wireless LANs: IEEE 802.11 |
| Day 44 | Bluetooth |
| Day 45 | Network Layer: IP Addressing and Routing, Format and Services |
| Day 46 | Network Layer: IP Addressing and Routing, Format and Services |
| Day 47 | Network Layer: IP Addressing and Routing, Format and Services |
| Day 48 | Network Layer Protocols: IPv4 |
| Day 49 | Network Layer Protocols: IPv4 |
| Day 50 | ARP, ICMP (Error Reporting and Query message) |
| Day 51 | ARP, ICMP (Error Reporting and Query message) |
| Day 52 | IPv6 (Header Format and Addressing). |
| Day 53 | IPv6 (Header Format and Addressing). |
| Day 54 | Transport Layer: Process-to-Process Delivery |
| Day 55 | UDP |
| Day 56 | TCP |
| Day 57 | Connection Management by TCP |
| Day 58 | Connection Management by TCP |
| Day 59 | Basics of Congestion Control |
| Day 60 | Basics of Congestion Control |
| Day 61 | Application Layer: Domain Name System (DNS) |
| Day 62 | Test of Unit-2 |
| Day 63 | SMTP |
| Day 64 | SMTP |
| Day 65 | HTTP |
| Day 66 | HTTP |
| Day 67 | WWW |
| Day 68 | WWW |
| Day 69 | Network Security: Security Requirements and attacks |
| Day 70 | Network Security: Security Requirements and attacks |
| Day 71 | Network Security: Security Requirements and attacks |
| Day 72 | Cryptography: Symmetric Key (DES, AES) |
| Day 73 | Cryptography: Symmetric Key (DES, AES) |
| Day 74 | Cryptography: Symmetric Key (DES, AES) |
| Day 75 | Public Key Cryptography (RSA) |
| Day 76 | Public Key Cryptography (RSA) |
| Day 77 | Public Key Cryptography (RSA) |
| Day 78 | Firewall |
| Day 79 | Firewall |
| Day 80 | Test of Unit-2 |
| Day 81 | Revision of Previous Year Question Paper |
| Day 82 | Revision of Previous Year Question Paper |
| Day 83 | Revision of Previous Year Question Paper |
| Day 84 | Test of Unit-3 |
| Day 85 | Revision of Previous Year Question Paper |
| Day 86 | Revision of Previous Year Question Paper |
| Day 87 | Revision of Previous Year Question Paper |
| Day 88 | Revision of Previous Year Question Paper |
| Day 89 | Revision of Previous Year Question Paper |
| Day 90 | Test of Unit-4 |

# K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD

## LESSON PLAN FOR THE SESSION 2022-23

**Name of the  professor:  Ms. Sandhya Chaudhary**

**Class And Section:        M.sc(cs) final year**
**Subject:                JAVA PROGRAMMING**
**                         PAPER CODE-17MCS24C1**

| | |
|---|---|
| Day 1 | Introduction: Java |
| Day 2 | Introduction: Java History, Java features Java and Internet, |
| Day 3 |  Java features Java and Internet, |
| Day 4 | Java and World Wide Web, Java |
| Day 5 | Java and World Wide Web, Java |
| Day 6 | Program Structure, |
| Day 7 | Program Structure, |
| Day 8 |  Java Tokens, Java Virtual Machine, |
| Day 9 |  Java Tokens, Java Virtual Machine, |
| Day 10 | Data Types, Operators and Expressions, |
| Day 11 | Operators and Expressions |
| Day 12 | Decision Making and Branching, |
| Day 13 |  Decision Making and Branching, |
| Day 14 |  looping Classes and Methods. |
| Day 15 |  looping Classes and Methods. |
| Day 16 | Inheritance: Using Existing Classes, |
| Day 17 | Using Existing Classes, |
| Day 18 | Class Inheritance, Choosing Base Class. |
| Day 19 | Class Inheritance, Choosing Base Class. |
| Day 20 |  Access Attributes, |
| Day 21 | Access Attributes |
| Day 22 |  types of Inheritance,. |
| Day 23 | types of Inheritance,. |
| Day 24 | Abstract Classes,Using Final Modifier |
| Day 25 | Abstract Classes,Using Final Modifier |
| Day 26 | Polymorphism: Types of polymorphism. |
| Day 27 | Types of polymorphism. |
| Day 28 |  Packages & Interfaces: Understanding Packages, Defining a Package, Packaging up Your Classes, |
| Day 29 | Packaging up Your Classes, |

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| Day 30 | Packaging up Your Classes, |
| Day 31 | Adding Classes from a Package to Your Program, |
| Day 32 | Understanding CLASSPATH, Access Protection in Packages, |
| Day 33 | Understanding CLASSPATH, Access Protection in Packages, |
| Day 34 | Concept of Interface.Exception Handling: Types of Exceptions, |
| Day 35 | Concept of Interface.Exception Handling: Types of Exceptions, |
| Day 36 | Dealing with Exceptions, Exception Objects. |
| Day 37 | Dealing with Exceptions, Exception Objects. |
| Day 38 | Multithreading Programming: Understanding Threads, |
| Day 39 | Multithreading Programming: Understanding Threads, |
| Day 40 | The Main Thread, Creating a Thread,Creating Multiple Threads. |
| Day 41 | The Main Thread, Creating a Thread,Creating Multiple Threads. |
| Day 42 | Thread Priorities, Synchronization, |
| Day 43 | Thread Priorities, Synchronization, |
| Day 44 | Deadlocks, |
| Day 45 | Deadlocks, |
| Day 46 | Inter thread communication Input/Output in Java: I/O Basic, Byte and Character |
| Day 47 | Inter thread communication Input/Output in Java: I/O Basic, Byte and Character |
| Day 48 | Inter thread communication Input/Output in Java: I/O Basic, Byte and Character |
| Day 49 | Structures, I/O Classes, Reading Console.Creating Applets in Java: Applet Basics, |
| Day 50 | Structures, I/O Classes, Reading Console.Creating Applets in Java: Applet Basics, |
| Day 51 | Applet Architecture, |
| Day 52 | Applet Architecture, |
| Day 53 | Applet Life Cycle, |
| Day 54 | Applet Life Cycle, |
| Day 55 | Simple Applet Display Methods, |
| Day 56 | Simple Applet Display Methods, |
| Day 57 | Requesting Repainting, Using The Status Window, |
| Day 58 | Requesting Repainting, Using The Status Window, |
| Day 59 | The HTML APPLET Tag Passing Parameters to Applets. |
| Day 60 | The HTML APPLET Tag Passing Parameters to Applets. |
| Day 61 | Assignment |
| Day 62 | Passing Parameters to Applets |
| Day 63 | Class test. |
| Day 64 | AWT: Working with AWT Controls, |
| Day 65 | AWT: Working with AWT Controls, |
| Day 66 | AWT Classes, |
| Day 67 | AWT Classes |
| Day 68 | Window Fundamentals. |
| Day 69 | Window Fundamentals. |
| Day 70 | Working with Frame, |
| Day 71 | Working with Frame, |
| Day 72 | Creating a Frame Window in an Applet, |
| Day 73 | Creating a Frame Window in an Applet, |
| Day 74 | Displaying Information Within a Window. |
| Day 75 | Displaying Information Within a Window |
| Day 76 | Working with Graph: Working with Graphics, |
| Day 77 | Working with Graph: Working with Graphics, |
| Day 78 | Working with Color, Setting the Paint Mode, |
| Day 79 | Working with Color, Setting the Paint Mode, |

| Day 80 | Working with Fonts, |
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| Day 81 | Working with Fonts, |
| Day 82 | Exploring Text and Graphics, |
| Day 83 | Exploring Text and Graphics, |
| Day 84 | Layout Managers and Menus. |
| Day 85 | Layout Managers and Menus. |
| Day 86 | Class test |
| Day 87 | revision |
| Day 88 | revision |
| Day 89 | revision |
| Day 90 | revision |

# K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD

## LESSON PLAN FOR THE SESSION 2022-23

**Name of the  professor: Ms. NEETU**

**Class And Section: MSc.-final year**

**Subject: - MULTIMEDIA AND ITS APPLICATIONS -: (17MCS24DA3 )**

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| Day 1 | Definition of multimedia |
| Day 2 | Multimedia Basics, Where to use Multimedia |
| Day 3 | Multimedia Elements, Multimedia Application |
| Day 4 | Virtual Reality, Delivering Multimedia |
| Day 5 | Virtual Reality, Delivering Multimedia |
| Day 6 | Multimedia Workstation Architecture |
| Day 7 | Multimedia Workstation Architecture |
| Day 8 | High resolution Graphic displays; Network architecture for Multimedia systems. |
| Day 9 | High resolution Graphic displays; Network architecture for Multimedia systems |
| Day 10 | Evolving Technologies For Multimedia Systems |
| Day 11 | Evolving Technologies For Multimedia Systems |
| Day 12 | Hypermedia Documents |
| Day 13 | Hypermedia Documents |
| Day 14 | Hypertext - Hyper Speech |
| Day 15 | Hypertext - Hyper Speech |
| Day 16 | HDTV and UDTV |
| Day 17 | HDTV and UDTV |
| Day 18 | HDTV and UDTV |
| Day 19 | 3D Technology |
| Day 20 | 3D Technology |
| Day 21 | 3D Technology |
| Day 22 | Revision |
| Day 23 | Multimedia Software: Overview of Multimedia Software Tools |
| Day 24 | Multimedia Software: Overview of Multimedia Software Tools |
| Day 25 | Multimedia Software: Overview of Multimedia Software Tools |

| Day 26 | Open Source Replacements - Multimedia Authoring - Some Useful Editing and Authoring Tools - VRML. |
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| Day 27 | Open Source Replacements - Multimedia Authoring - Some Useful Editing and Authoring Tools - VRML. |
| Day 28 | Open Source Replacements - Multimedia Authoring - Some Useful Editing and Authoring Tools - VRML. |
| Day 29 | Revision |
| Day 30 | Test |
| Day 31 | Text, Image and Sound Fundamentals: About Fonts and Face, Hypermedia and Hypertext |
| Day 32 | Text, Image and Sound Fundamentals: About Fonts and Face, Hypermedia and Hypertext |
| Day 33 | Text, Image and Sound Fundamentals: About Fonts and Face, Hypermedia and Hypertext |
| Day 34 | Text, Image and Sound Fundamentals: About Fonts and Face, Hypermedia and Hypertext |
| Day 35 | Images: Making Still Images, Bitmaps - 1 bit images - 8-bit gray level images - 8-bit color images- Dithering24 bit color images |
| Day 36 | Images: Making Still Images, Bitmaps - 1 bit images - 8-bit gray level images - 8-bit color images- Dithering24 bit color images |
| Day 37 | Images: Making Still Images, Bitmaps - 1 bit images - 8-bit gray level images - 8-bit color images- Dithering24 bit color images |
| Day 38 | Images: Making Still Images, Bitmaps - 1 bit images - 8-bit gray level images - 8-bit color images- Dithering24 bit color images |
| Day 39 | Vector Drawing - Vector-Drawn Objects vs. Bitmaps. Sound: MIDI Audio - MIDI vs. Digital Audio |
| Day 40 | Vector Drawing - Vector-Drawn Objects vs. Bitmaps. Sound: MIDI Audio - MIDI vs. Digital Audio |
| Day 41 | Vector Drawing - Vector-Drawn Objects vs. Bitmaps. Sound: MIDI Audio - MIDI vs. Digital Audio |
| Day 42 | Multimedia System Sounds; Adding Sound to Your Multimedia Project, Audio Recording |
| Day 43 | Multimedia System Sounds; Adding Sound to Your Multimedia Project, Audio Recording |
| Day 44 | Revision |
| Day 45 | Animation |
| Day 46 | The Power of Motion- Principles of Animation - Animation by Computer - Animation Techniques, Types of Animation. |

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| Day 47 | The Power of Motion- Principles of Animation - Animation by Computer - Animation Techniques, Types of Animation. |
| Day 48 | The Power of Motion- Principles of Animation - Animation by Computer - Animation Techniques, Types of Animation. |
| Day 49 | Data Compression |
| Day 50 | Need for Data compression |
| Day 51 | Need for Data compression |
| Day 52 | General Data compression Scheme |
| Day 53 | General Data compression Scheme |
| Day 54 | Compression standards |
| Day 55 | Compression standards |
| Day 56 | Non-lossy compression for images |
| Day 57 | Non-lossy compression for images |
| Day 58 | Non-lossy compression for images |
| Day 59 | Revision |
| Day 60 | Lossy compression for Photographs and video |
| Day 61 | Lossy compression for Photographs and video |
| Day 62 | Hardware Vs Software Compression |
| Day 63 | Hardware Vs Software Compression |
| Day 64 | Basics of Binary image compression |
| Day 65 | Basics of Binary image compression |
| Day 66 | Data and File Format Standards |
| Day 67 | Popular File Formats - RTF. |
| Day 68 | RIFF, GIF, PNG |
| Day 69 | TIFF, MIDI |
| Day 70 | JPEG, JFIF, AVI |
| Day 71 | WAV, BMP,WMF |
| Day 72 | Revision |
| Day 73 | Multimedia input/output Technologies |
| Day 74 | Limitations of Traditional input devices - Multimedia input output devices. |

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| Day 75 | Limitations of Traditional input devices - Multimedia input output devices. |
| Day 76 | PEN input - Working of Electronic Pen |
| Day 77 | PEN input - Working of Electronic Pen |
| Day 78 | Video and image display systems |
| Day 79 | Video and image display systems |
| Day 80 | display technology standards |
| Day 81 | display technology standards |
| Day 82 | CRT - display terminology |
| Day 83 | CRT - display terminology |
| Day 84 | Flat panel display system |
| Day 85 | Flat panel display system |
| Day 86 | Doubt |
| Day 87 | Test |
| Day 88 | Discussion of Previous Year Question Paper |
| Day 89 | Discussion of Previous Year Question Paper |
| Day 90 | Discussion of Previous Year Question Paper |

# K.L MEHTA DAYANAND COLLEGE FOR WOMEN,FARIDABAD

# LESSON PLAN FOR THE SESSION 2022-23

**Name of the  professor:  Ms. Shivani Gupta**

**Class And Section: MSc–II<sup>nd</sup>  Year**

**Subject: Internet and Web Designing**

| Day 1 | Introduction of Syllabus |
|---|---|
| Day 2 | Internet, Evolution of Internet |
| Day 3 | E-Mail Concepts |
| Day 4 | Types of Computer Network: LAN, WAN, MAN |
| Day 5 | Internet Protocol |
| Day 6 | Internet Services |
| Day 7 | WWW |
| Day 8 | Working of Internet |
| Day 9 | Introduction to Intranet |
| Day 10 | DNS working |
| Day 11 | Configuring Internet Connection |
| Day 12 | Internet Connection Concepts |
| Day 13 | Connecting LAN to Internet |
| Day 14 | Client-Server environment |
| Day 15 | Client-Server environment |
| Day 16 | Workstation |
| Day 17 | Computer Network, |
| Day 18 | Network Topologies |
| Day 19 | Network Protocols |
| Day 20 | E-Mail Concepts – Configuring E-Mail Program, |
| Day 21 | Configuring E-Mail Program |
| Day 22 | Sending and Receiving Files through E-Mail, |
| Day 23 | Fighting Spam |
| Day 24 | Sorting Mail |
| Day 25 | E-Mail mailing lists |

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| Day 26 | avoiding E-Mail viruses. |
| Day 27 | Searching and Web Casting Technique |
| Day 28 | Popular web servers |
| Day 29 | Web Browsers |
| Day 30 | basic features of browsers |
| Day 31 | bookmarks |
| Day 32 | cookies |
| Day 33 | progress indicators |
| Day 34 | customization of browser |
| Day 35 | browsing tricks |
| Day 36 | next generation web browsing |
| Day 37 | search engines |
| Day 38 | Hypertext Transfer Protocol (HTTP) |
| Day 39 | URL |
| Day 40 | Internet Tools: Online Chatting, Messaging, and Conferencing Concepts |
| Day 41 | Usenet newsgroup concepts: Reading usenet newsgroups, Instant messaging |
| Day 42 | Web-Based chat rooms and discussion boards, Voice and Video conferencing. |
| Day 43 | Streamlining Browsing, Keeping track of Favorite Web Sites |
| Day 44 | Web Security, Privacy, and Site-Blocking. |
| Day 45 | Revision |
| Day 46 | Test of Unit 2 |
| Day 47 | Web Designing using HTML |
| Day 48 | Understanding HTML |
| Day 49 | XHTML Syntax and Semantics |
| Day 50 | HTML Elements: Paragraph, Lists, Tables, Images, Frames, Forms |
| Day 51 | HTML Elements: Paragraph, Lists, Tables, Images, Frames, Forms |
| Day 52 | Linking to other Web Pages: External and Internal linking |
| Day 53 | E-mail Links |
| Day 54 | Working with Background colors and Images |
| Day 55 | Marquee |
| Day 56 | Text Alignment and Text Formatting, Advanced Layout with Table. |
| Day 57 | Publishing HTML Pages. |
| Day 58 | Cascading Style Sheets: Introduction, Inline, Internal, External CSS |
| Day 59 | Linking CSS to Web Page |
| Day 60 | Client–Side Programming: Introduction to JavaScript, Basic Syntax |
| Day 61 | Variables and Data types, Statements, Operators, Literals, Functions, Objects, Arrays. |
| Day 62 | XML: Relation between XML and HTML   Searching with XPath. |
| Day 63 | Goals of XML, Structure and Syntax of XML |
| Day 64 | Well Formed XML |
| Day 65 | DTD and its Structure |
| Day 66 | tree structures in data organization |
| Day 67 | Searching with XPath |
| Day 68 | Searching with XPath |

| Day 69 | Revision |
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| Day 70 | Revision |
| Day 71 | Doubt Class |
| Day 72 | Doubt Class |
| Day 73 | Previous Year Question Paper |
| Day 74 | Previous Year Question Paper |
| Day 75 | Previous Year Question Paper |
| Day 76 | Revision |
| Day 77 | Revision |
| Day 78 | Revision |
| Day 79 | Revision |
| Day 80 | Revision |
| Day 81 | Revision |
| Day 82 | Revision |
| Day 83 | Revision |
| Day 84 | Revision |
| Day 85 | Revision |
| Day 86 | Revision |
| Day 87 | Revision |
| Day 88 | Revision |
| Day 89 | Revision |
| Day 90 | Revision |