

# Lesson Plans

of

**BCA**

Session: 2023-24  
(Even Semester)

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|   |   |
|---|---|
| <b>Name of the professor: Ms. Poonam</b>  |   |
| <b>Class And Section : BCA IInd Sem</b>   |   |
| <b>Subject: BCA-106 : 'C' PROGRAMMING</b> |   |
| Day 1                                     | Overview of C   |
| Day 2                                     | History of C  |
| Day 3                                     | Importance of C   |
| Day 4                                     | Elements of C   |
| Day 5                                     | C character set   |
| Day 6                                     | identifiers and keywords,                                   |
| Day 7                                     | Data Types  |
| Day 8                                     | Constants And Variables                                     |
| Day 9                                     | Assignment Statement  |
| Day 10                                    | Symbolic Constant   |
| Day 11                                    | Structure Of A C Program                                    |
| Day 12                                    | Printf(), Scanf() Functions                                 |
| Day 13                                    | Operators & Expression                                      |
| Day 14                                    | Arithmetic, Relational                                      |
| Day 15                                    | Logical, Bitwise, Unary, Assignment Operator                |
| Day 16                                    | Bitwise Operator  |
| Day 17                                    | Shorthand Assignment Operators                              |
| Day 18                                    | Conditional Operators, Increment And Decrement Operators    |
| Day 19                                    | Test  |
| Day 20                                    | Arithmetic expressions, evaluation of arithmetic expression |
| Day 21                                    | Type casting and conversion                                 |
| Day 22                                    | operator hierarchy & associativity                          |
| Day 23                                    | Decision making & branching                                 |
| Day 24                                    | Decision making with IF statement                           |
| Day 25                                    | IF-ELSE statement   |
| Day 26                                    | Nested IF statement   |
| Day 27                                    | Nested IF statement   |
| Day 28                                    | Nested IF statement   |
| Day 29                                    | ELSE-IF ladder  |
| Day 30                                    | ELSE-IF ladder  |
| Day 31                                    | switch statement  |
| Day 32                                    | switch statement  |
| Day 33                                    | Decision making & looping:                                  |
| Day 34                                    | while loop  |
| Day 35                                    | while loop  |
| Day 36                                    | do-while loop   |
| Day 37                                    | For Loop  |
| Day 38                                    | jumps in loops, break, continue statement                   |
| Day 39                                    | Nested loops  |
| Day 40                                    | goto statement  |
| Day 41                                    | Break, continue   |
| Day 42                                    | Functions: Standard Mathematical functions                  |
| Day 43                                    | Input/output: Unformatted & formatted I/O function in C     |
| Day 44                                    | Input/output: Unformatted & formatted I/O function in C     |
| Day 45                                    | Input functions viz. getch(), getche(), getchar(), gets(),  |
| Day 46                                    | output functions viz., putch(), putchar(), puts()           |
| Day 47                                    | String manipulation functions                               |

|        |   |
|--------|---|
| Day 48 | User defined functions: Introduction/Definition                 |
| Day 49 | User defined functions  |
| Day 50 | User defined functions  |
| Day 51 | User defined functions  |
| Day 52 | prototype,Local and global variables,Local and global variables |
| Day 53 | prototype,Local and global variables,Local and global variables |
| Day 54 | passing parameters  |
| Day 55 | recursion.  |
| Day 56 | Doubt   |
| Day 57 | Array   |
| Day 58 | Arrays Definition,initialization                                |
| Day 59 | Array types   |
| Day 60 | Array   |
| Day 61 | Test  |
| Day 62 | Doubt   |
| Day 63 | 2D Array  |
| Day 64 | 2D Array  |
| Day 65 | processing an array   |
| Day 66 | passing arrays to functions                                     |
| Day 67 | passing arrays to functions                                     |
| Day 68 | Declaration of String   |
| Day 69 | String  |
| Day 70 | String  |
| Day 71 | String Function   |
| Day 72 | String Function   |
| Day 73 | String Function   |
| Day 74 | Doubt   |
| Day 75 | Introduction to pointers  |
| Day 76 | Introduction to pointers  |
| Day 77 | Storage classes in C  |
| Day 78 | Storage classes in C  |
| Day 79 | Auto,extern,register  |
| Day 80 | Auto,extern,register  |
| Day 81 | Static storage class their scope storage, & lifetime            |
| Day 82 | Static storage class their scope storage, & lifetime            |
| Day 83 | Algorithm development   |
| Day 84 | Flow charting   |
| Day 85 | Development of efficient program in C                           |
| Day 86 | Revision  |
| Day 87 | Revision  |
| Day 88 | Discuss Previous Year Question Paper                            |
| Day 89 | Discuss Previous Year Question Paper                            |
| Day 90 | Discuss Previous Year Question Paper                            |

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|   |  |
|---|--|
| <b>Name of the professor: Ms. Rupinder</b>                        |  |
| <b>Class And Section: BCA-IIInd Sem (Section-A and Section-B)</b> |  |
| <b>Subject: LOC-II (BCA-107)</b>                                  |  |
| Day 1   | Introduction   |
| Day 2   | Sequential Logic   |
| Day 3   | Sequential Logic: Characteristics                        |
| Day 4   | Flip-Flops   |
| Day 5   | Clocked RS   |
| Day 6   | Clocked RS   |
| Day 7   | JK Flip Flop   |
| Day 8   | JK Flip Flop   |
| Day 9   | Master- Slave flip-flops                                 |
| Day 10  | Master- Slave flip-flops                                 |
| Day 11  | T type flip flop   |
| Day 12  | D type   |
| Day 13  | Revision   |
| Day 14  | Test   |
| Day 15  | State table  |
| Day 16  | State diagram  |
| Day 17  | State equations  |
| Day 18  | Flip-flop excitation tables                              |
| Day 19  | Revision   |
| Day 20  | Test   |
| Day 21  | Sequential Circuits                                      |
| Day 22  | Designing registers                                      |
| Day 23  | Serial Input Serial Output (SISO)                        |
| Day 24  | Parallel Output (SIPO)                                   |
| Day 25  | Parallel Input Serial Output (PISO)                      |
| Day 26  | Parallel Input Parallel Output (PIPO)                    |
| Day 27  | shift registers  |
| Day 28  | Revision   |
| Day 29  | Test   |
| Day 30  | Designing counters                                       |
| Day 31  | Designing counters – Asynchronous and Synchronous Binary |
| Day 32  | Designing counters – Asynchronous and Synchronous Binary |
| Day 33  | Designing counters – Asynchronous and Synchronous Binary |
| Day 34  | Modulo-N Counters  |
| Day 35  | Modulo-N Counters  |
| Day 36  | Up-Down Counters   |
| Day 37  | Up-Down Counters   |
| Day 38  | Revision   |
| Day 39  | Test   |
| Day 40  | Memory   |
| Day 41  | Memory & I/O Devices                                     |
| Day 42  | Memory & I/O Devices                                     |
| Day 43  | Memory Parameters  |
| Day 44  | Semiconductor RAM  |
| Day 45  | Semiconductor ROM  |
| Day 46  | Magnetic Storage devices                                 |

|        |  |
|--------|--|
| Day 47 | Magnetic Storage devices                 |
| Day 48 | Optical Storage devices                  |
| Day 49 | Optical Storage devices                  |
| Day 50 | Flash memory                             |
| Day 51 | Revision                                 |
| Day 52 | Test                                     |
| Day 53 | Input Devices                            |
| Day 54 | Output devices                           |
| Day 55 | I/O Devices and their controllers.       |
| Day 56 | I/O Devices and their controllers.       |
| Day 57 | Revision                                 |
| Day 58 | Test                                     |
| Day 59 | Instruction Design & I/O Organization    |
| Day 60 | Instruction Design                       |
| Day 61 | Instruction Design                       |
| Day 62 | Machine instruction                      |
| Day 63 | Machine instruction                      |
| Day 64 | Instruction set selection                |
| Day 65 | Instruction set selection                |
| Day 66 | Instruction cycle                        |
| Day 67 | Instruction cycle                        |
| Day 68 | Instruction Format                       |
| Day 69 | Instruction Format                       |
| Day 70 | Addressing Modes                         |
| Day 71 | Addressing Modes                         |
| Day 72 | I/O Interface                            |
| Day 73 | I/O Interface, Interrupt                 |
| Day 74 | Interrupt structure                      |
| Day 75 | Interrupt structure                      |
| Day 76 | Program-controlled                       |
| Day 77 | Program-controlled                       |
| Day 78 | Interrupt-controlled                     |
| Day 79 | Interrupt-controlled                     |
| Day 80 | DMA transfer                             |
| Day 81 | DMA transfer                             |
| Day 82 | I/O Channels                             |
| Day 83 | I/O Channels, .                          |
| Day 84 | IOP                                      |
| Day 85 | Revision                                 |
| Day 86 | Test                                     |
| 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 | Revision                                 |

\*As per number of periods /week

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|   |  |
|---|--|
| <b>Name of the professor: Ms. Ayeesha</b><br><b>Class And Section: BCA IInd Sem, (Sec A, Sec B)</b><br><b>Subject: MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE (BCA-108)</b> |  |
| Day 1   | Measure of Central Tendency            |
| Day 2   | Measure of Central Tendency            |
| Day 3   | Preparing frequency distribution table |
| Day 4   | Preparing frequency distribution table |
| Day 5   | Mean                                   |
| Day 6   | Mean                                   |
| Day 7   | Mean, Mode                             |
| Day 8   | Mode                                   |
| Day 9   | Mode                                   |
| Day 10  | Median                                 |
| Day 11  | Median                                 |
| Day 12  | Median                                 |
| Day 13  | Measure of Dispersion: Range           |
| Day 14  | Measure of Dispersion: Range           |
| Day 15  | Variance                               |
| Day 16  | Variance                               |
| Day 17  | Standard Deviations                    |
| Day 18  | Standard Deviations                    |
| Day 19  | Correlation and Regression             |
| Day 20  | Correlation and Regression             |
| Day 21  | Correlation and Regression             |
| Day 22  | Correlation and Regression             |
| Day 23  | Algorithms                             |
| Day 24  | Algorithms, merits and demerits        |
| Day 25  | Exponentiation                         |
| Day 26  | Exponentiation                         |
| Day 27  | Exponentiation                         |
| Day 28  | How to compute fast exponentiation     |
| Day 29  | How to compute fast exponentiation     |
| Day 30  | How to compute fast exponentiation     |
| Day 31  | Linear Search                          |
| Day 32  | Linear Search                          |
| Day 33  | Linear Search                          |
| Day 34  | Binary Search                          |
| Day 35  | Binary Search                          |
| Day 36  | Binary Search                          |
| Day 37  | "Big Oh" notation                      |
| Day 38  | "Big Oh" notation                      |
| Day 39  | Worst case                             |
| Day 40  | Worst case                             |
| Day 41  | Worst case                             |
| Day 42  | Advantage                              |

|        |  |
|--------|--|
| Day 43 | Graphs                                   |
| Day 44 | Graphs                                   |
| Day 45 | degree of vertex                         |
| Day 46 | sub graph                                |
| Day 47 | isomorphic                               |
| Day 48 | homeomorphic graphs                      |
| Day 49 | Adjacent and incidence matrices          |
| Day 50 | Adjacent and incidence matrices          |
| Day 51 | Path Circuit                             |
| Day 52 | Eulerian,                                |
| Day 53 | Hamiltonian path circuit                 |
| Day 54 | Hamiltonian path circuit                 |
| Day 55 | Trees                                    |
| Day 56 | Minimum distance trees                   |
| Day 57 | Minimum weight                           |
| Day 58 | Minimum distance                         |
| Day 59 | spanning trees                           |
| Day 60 | Recursion: Recursively defined function. |
| Day 61 | Recursion: Recursively defined function. |
| Day 62 | Merge sort                               |
| Day 63 | Merge sort                               |
| Day 64 | Insertion sort                           |
| Day 65 | Insertion sort                           |
| Day 66 | Bubble sort                              |
| Day 67 | Bubble sort                              |
| Day 68 | Decimal to Binary                        |
| Day 69 | Decimal to Binary                        |
| Day 70 | LHRR                                     |
| Day 71 | LHRRWCCs,                                |
| Day 72 | LHRRWCCs,                                |
| Day 73 | DCRR                                     |
| Day 74 | DCRR                                     |
| Day 75 | Recursive procedures.                    |
| Day 76 | Recursive procedures.                    |
| Day 77 | Principle of Mathematical induction      |
| Day 78 | Principle of Mathematical induction      |
| Day 79 | Principle of Mathematical induction      |
| Day 80 | GCD                                      |
| Day 81 | GCD                                      |
| Day 82 | Euclidean algorithm                      |
| Day 83 | Euclidean algorithm                      |
| Day 84 | Fibonacci numbers                        |
| Day 85 | congruences                              |
| Day 86 | equivalence relations                    |
| Day 87 | public key encryption schemes.           |
| Day 88 | public key encryption schemes            |
| Day 89 | Revision                                 |
| Day 90 | Revision                                 |

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|   |  |
|---|--|
| <b>Name of the professor: Ms. Vishakha &amp; Ms. Ayeesha</b>    |  |
| <b>Class And Section: BCA 1 year ,2<sup>nd</sup> Sem</b>        |  |
| <b>Subject: - BCA-109 Structured System Analysis and Design</b> |  |
| Day 1   | Introduction to system                     |
| Day 2   | Definition and characteristics of a system |
| Day 3   | Elements of system                         |
| Day 4   | Elements of system                         |
| Day 5   | Type of systems                            |
| Day 6   | System development life cycle              |
| Day 7   | System development life cycle              |
| Day 8   | System development life cycle              |
| Day 9   | Role of system analyst                     |
| Day 10  | Role of system analyst                     |
| Day 11  | Analyst/user interface                     |
| Day 12  | System planning and initial investigation  |
| Day 13  | Bases for planning in system analysis      |
| Day 14  | Sources of project requests                |
| Day 15  | Sources of project requests                |
| Day 16  | Initial investigation                      |
| Day 17  | Fact finding                               |
| Day 18  | Fact finding                               |
| Day 19  | Information gathering                      |
| Day 20  | information gathering tools                |
| Day 21  | information gathering tools                |
| Day 22  | information gathering tools                |
| Day 23  | information gathering tools                |
| Day 24  | Fact analysis                              |
| Day 25  | Determination of feasibility               |
| Day 26  | Feasibility                                |
| Day 27  | Introduction Structured analysis           |
| Day 28  | Tools of structured analysis               |
| Day 29  | Flow charts                                |
| Day 30  | DFD  |
| Day 31  | DFD  |
| Day 32  | Data dictionary                            |
| Day 33  | Gantt charts                               |
| Day 34  | decision tree                              |
| Day 35  | decision table                             |
| Day 36  | structured English                         |
| Day 37  | Pros and cons of each tool                 |
| Day 38  | Test                                       |
| Day 39  | Feasibility study                          |
| Day 40  | Feasibility study -Objective, Types        |
| Day 41  | Steps in feasibility analysis              |



|        |   |
|--------|---|
| Day 42 | Feasibility report                                  |
| Day 43 | Oral presentation                                   |
| Day 44 | Cost and benefit analysis:                          |
| Day 45 | Identification of costs and benefits                |
| Day 46 | classification of costs and benefits                |
| Day 47 | Methods of determining costs and benefits           |
| Day 48 | Interpret results of analysis and take final action |
| Day 49 | Test  |
| Day 50 | System Design                                       |
| Day 51 | System design objective                             |
| Day 52 | Design Methodologies                                |
| Day 53 | Design Methodologies                                |
| Day 54 | Logical and physical design                         |
| Day 55 | structured design                                   |
| Day 56 | structured design                                   |
| Day 57 | Form-Driven methodology(IPO charts)                 |
| Day 58 | Form-Driven methodology(IPO charts)                 |
| Day 59 | structured walkthrough                              |
| Day 60 | structured walkthrough                              |
| Day 61 | Input/Output and form design                        |
| Day 62 | Input design, Objectives of input design            |
| Day 63 | Output design, Objectives of output design          |
| Day 64 | Form design   |
| Day 65 | Classification of forms                             |
| Day 66 | requirements of form design                         |
| Day 67 | Types of forms                                      |
| Day 68 | Layout considerations                               |
| Day 69 | Form control  |
| Day 70 | System testing: Introduction                        |
| Day 71 | Objectives of testing                               |
| Day 72 | Test plan   |
| Day 73 | testing techniques                                  |
| Day 74 | testing techniques                                  |
| Day 75 | Types of system tests                               |
| Day 76 | Types of system tests                               |
| Day 77 | Quality assurance goals in system life cycle        |
| Day 78 | System implementation                               |
| Day 79 | Process of implementation                           |
| Day 80 | System evaluation                                   |
| Day 81 | System maintenance and its types                    |
| Day 82 | System documentation                                |
| Day 83 | Forms of documentation                              |
| Day 84 | Doubt   |

|        |  |
|--------|--|
| Day 85 | Test                                       |
| Day 86 | Discussion of Previous Year Question Paper |
| Day 87 | Discussion of Previous Year Question Paper |
| 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 2023-24**

|   |   |
|---|---|
| <b>Name of the professor: Ms. Kritika and Ms.Rupinder</b>                   |   |
| <b>Class And Section: BCA 4<sup>th</sup> Sem (Section-A and Section -B)</b> |   |
| <b>Subject:Web Designing(BCA – 206)</b>                                     |   |
| Day 1   | Introduction Class  |
| Day 2   | Introduction to Internet                                  |
| Day 3   | World Wide Web  |
| Day 4   | Evolution and History of World Wide Web                   |
| Day 5   | Evolution and History of World Wide Web                   |
| Day 6   | Web Browsers  |
| Day 7   | Web Servers   |
| Day 8   | Hypertext Transfer Protocol                               |
| Day 9   | Revision class  |
| Day 10  | Revision class  |
| Day 11  | Overview of TCP/IP  |
| Day 12  | TCP/IP and its services                                   |
| Day 13  | URLs  |
| Day 14  | Searching   |
| Day 15  | Web-Casting Techniques                                    |
| Day 16  | Searching and Web-Casting Techniques                      |
| Day 17  | Search Engines  |
| Day 18  | Revision class  |
| Day 19  | Search Tools  |
| Day 20  | Revision class  |
| Day 21  | Test Unit-1   |
| Day 22  | Web Publishing  |
| Day 23  | Hosting your Site   |
| Day 24  | Internet Service Provider                                 |
| Day 25  | Web terminologies   |
| Day 26  | Phases of Planning  |
| Day 27  | Phases of Planning and designing your Web Site            |
| Day 28  | Phases of Planning and designing your Web Site            |
| Day 29  | Steps for developing your Site                            |
| Day 30  | Steps for developing your Site                            |
| Day 31  | Revision class  |
| Day 32  | Choosing the contents                                     |
| Day 33  | Choosing the contents                                     |
| Day 34  | Home Page   |
| Day 35  | Revision class  |
| Day 36  | Domain Names  |
| Day 37  | Domain Names  |
| Day 38  | Front page views  |
| Day 39  | Front page views  |
| Day 40  | Adding pictures   |
| Day 41  | Adding pictures   |
| Day 42  | Links   |
| Day 43  | Backgrounds   |
| Day 44  | Relating Front Page to DHTML                              |
| Day 45  | Relating Front Page to DHTML                              |
| Day 46  | Creating a Website and the Markup Languages (HTML, DHTML) |

|        |   |
|--------|---|
| Day 47 | Revision class                          |
| Day 48 | Revision class                          |
| Day 49 | Test Unit-2                             |
| Day 50 | Introduction of Web Development         |
| Day 51 | Introduction to HTML                    |
| Day 52 | Hypertext and HTML                      |
| Day 53 | HTML Document                           |
| Day 54 | HTML features                           |
| Day 55 | HTML command Tags                       |
| Day 56 | HTML command Tags                       |
| Day 57 | Creating Links                          |
| Day 58 | Creating Links                          |
| Day 59 | Headers                                 |
| Day 60 | Text styles                             |
| Day 61 | Text Structuring                        |
| Day 62 | Text colors                             |
| Day 63 | Text colors and Background              |
| Day 64 | Formatting text                         |
| Day 65 | Page layouts                            |
| Day 66 | Images                                  |
| Day 67 | Ordered list                            |
| Day 68 | Unordered lists                         |
| Day 69 | Inserting Graphics                      |
| Day 70 | Table Creation                          |
| Day 71 | Layouts                                 |
| Day 72 | Table Creation and Layouts              |
| Day 73 | Frame Creation                          |
| Day 74 | Frame Creation and Layouts              |
| Day 75 | Working with Forms                      |
| Day 76 | Working with Menus                      |
| Day 77 | Working with Radio Button               |
| Day 78 | Check Boxes & Text Boxes                |
| Day 79 | Test Unit-3                             |
| Day 80 | DHTML: Dynamic HTML, Features of DHTML  |
| Day 81 | CSSP(cascading style sheet positioning) |
| Day 82 | JSSS(JavaScript assisted style sheet)   |
| Day 83 | JSSS(JavaScript assisted style sheet)   |
| Day 84 | Layers of netscape                      |
| Day 85 | The ID attributes                       |
| Day 86 | DHTML events.                           |
| Day 87 | Test Unit-4                             |
| Day 88 | Revision Previous year question paper   |
| Day 89 | Revision Previous year question paper   |
| Day 90 | Revision Previous year question paper   |

\*As per number of periods /week

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|  |  |
|--|--|
| <b>Name of the professor: Ms. Gurpreet Kaur</b>                      |  |
| <b>Class and Section: BCA-4<sup>th</sup> Sem, Section- A &amp; B</b> |  |
| <b>Subject: Data Structure-II(BCA-207)</b>                           |  |
| Day 1  | Introduction                                   |
| Day 2  | Tree: Header nodes                             |
| Day 3  | Tree: Header nodes, Threads                    |
| Day 4  | Binary search trees, Searching                 |
| Day 5  | Binary search trees, Insertion                 |
| Day 6  | Binary search trees, Deletion                  |
| Day 7  | AVL search trees Introduction                  |
| Day 8  | AVL search trees Insertion                     |
| Day 9  | AVL search trees Insertion                     |
| Day 10   | AVL search trees Deletion                      |
| Day 11   | m-way search tree Introduction                 |
| Day 12   | m-way search tree Introduction                 |
| Day 13   | m-way search tree Insertion                    |
| Day 14   | m-way search tree Deletion                     |
| Day 15   | Doubt Class                                    |
| Day 16   | Revision Test                                  |
| Day 17   | B-trees  |
| Day 18   | B-trees Insertion                              |
| Day 19   | B-trees Deletion                               |
| Day 20   | B+ tree Introduction                           |
| Day 21   | B+tree Insertion                               |
| Day 22   | B+tree Deletion                                |
| Day 23   | Doubt Class                                    |
| Day 24   | Huffman's algorithm                            |
| Day 25   | Huffman's algorithm                            |
| Day 26   | General trees                                  |
| Day 27   | Doubt Class                                    |
| Day 28   | Revision Test                                  |
| Day 29   | Graphs: Warshall's algorithm for shortest path |
| Day 30   | Graphs: Warshall's algorithm for shortest path |
| Day 31   | Dijkstra algorithm for shortest path           |
| Day 32   | Operations on graphs                           |
| Day 33   | Operations on graphs                           |
| Day 34   | Operations on graphs                           |
| Day 35   | Doubt Class                                    |
| Day 36   | Revision Test                                  |
| Day 37   | Traversal of graph                             |
| Day 38   | Traversal of graph                             |
| Day 39   | Topological sorting.                           |
| Day 40   | Topological sorting.                           |
| Day 41   | Doubt Class                                    |
| Day 42   | Revision Test                                  |
| Day 43   | Sorting: Internal & external sorting           |
| Day 44   | Radix sort                                     |
| Day 45   | Quick sort                                     |
| Day 46   | Quick sort                                     |

|        |  |
|--------|--|
| Day 47 | Heap sort  |
| Day 48 | Heap sort  |
| Day 49 | Doubt Class  |
| Day 50 | Revision Test  |
| Day 51 | Merge sort   |
| Day 52 | Merge sort   |
| Day 53 | Tournament sort  |
| Day 54 | Searching: Liner search  |
| Day 55 | Binary search  |
| Day 56 | Doubt Class  |
| Day 57 | Revision Test  |
| Day 58 | merging  |
| Day 59 | merging  |
| Day 60 | Comparison of various sorting and searching algorithms on the basis of their complexity. |
| Day 61 | Comparison of various sorting and searching algorithms on the basis of their complexity. |
| Day 62 | Doubt Class  |
| Day 63 | Revision Test  |
| Day 64 | Files: Physical storage devices and their characteristics                                |
| Day 65 | Attributes of a file viz fields, records   |
| Day 66 | Fixed and variable length records  |
| Day 67 | Primary and secondary keys   |
| Day 68 | Classification of files  |
| Day 69 | File operations  |
| Day 70 | File operations  |
| Day 71 | Comparison of various types of files   |
| Day 72 | File organization: Serial  |
| Day 73 | File organization: Sequential  |
| Day 74 | File organization: Indexed- Sequential   |
| Day 75 | Doubt Class  |
| Day 76 | Revision Test  |
| Day 77 | Random-access/Direct   |
| Day 78 | Inverted   |
| Day 79 | Multi-list file organization   |
| Day 80 | Multilist file organization  |
| Day 81 | Hashing: Introduction, Hashing functions   |
| Day 82 | Collision resolution methods .   |
| Day 83 | Doubt Class  |
| Day 84 | Revision Test  |
| Day 85 | Discussion of Previous Year Question Paper   |
| Day 86 | Discussion of Previous Year Question Paper   |
| Day 87 | Discussion of Previous Year Question Paper   |
| Day 88 | Discussion of Previous Year Question Paper   |
| Day 89 | Full Syllabus Test   |
| Day 90 | Full Syllabus Test   |

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|   |  |
|---|--|
| <b>Name of the professor: Ms. Neetu &amp; Ms. Vishakha</b>                  |  |
| <b>Class And Section: BCA 4<sup>th</sup> Sem (Section-A and Section -B)</b> |  |
| <b>Subject: Object Oriented Programming Using C++(BCA-208)</b>              |  |
| Day 1   | Introduction to Oops   |
| Day 2   | Object Oriented Programming Concepts                             |
| Day 3   | Procedural Language and Object Oriented approach                 |
| Day 4   | Procedural Language and Object Oriented approach                 |
| Day 5   | Procedural Language and Object Oriented approach                 |
| Day 6   | Characteristics of OOP, user defined types                       |
| Day 7   | Characteristics of OOP, user defined types                       |
| Day 8   | polymorphism   |
| Day 9   | encapsulation  |
| Day 10  | Getting started with C++ syntax                                  |
| Day 11  | Getting started with C++ syntax                                  |
| Day 12  | data types, variables, string, function, namespace and exception |
| Day 13  | data types, variables, string, function, namespace and exception |
| Day 14  | data types, variables, string, function, namespace and exception |
| Day 15  | operators  |
| Day 16  | flow control   |
| Day 17  | recursion  |
| Day 18  | array and pointer  |
| Day 19  | array and pointer  |
| Day 20  | structure  |
| Day 21  | structure  |
| Day 22  | Test   |
| Day 23  | Abstracting Mechanism  |
| Day 24  | Abstracting Mechanism  |
| Day 25  | classes, private and public                                      |
| Day 26  | classes, private and public                                      |
| Day 27  | Revision   |
| Day 28  | Constructor and Destructor                                       |
| Day 29  | Constructor and Destructor                                       |
| Day 30  | member function, static members, references                      |
| Day 31  | member function, static members, references                      |
| Day 32  | Revision   |
| Day 33  | new, delete operator   |
| Day 34  | new, delete operator   |
| Day 35  | object copying   |
| Day 36  | copy constructor   |
| Day 37  | assignment operator  |
| Day 38  | this input/output  |
| Day 39  | assignment operator  |
| Day 40  | Test of unit – 2   |
| Day 41  | this input/output  |
| Day 42  | this input/output  |
| Day 43  | Oral test  |
| Day 44  | Inheritance  |
| Day 45  | Inheritance  |
| Day 46  | Inheritance  |

|        |  |
|--------|--|
| Day 47 | Inheritance  |
| Day 48 | Inheritance  |
| Day 49 | Polymorphism   |
| Day 50 | Polymorphism   |
| Day 51 | Derived Class and Base Class                         |
| Day 52 | Derived Class and Base Class                         |
| Day 53 | Different types of Inheritance                       |
| Day 54 | Different types of Inheritance                       |
| Day 55 | Revision   |
| Day 56 | Test   |
| Day 57 | Overriding member function                           |
| Day 58 | Overriding member function                           |
| Day 59 | Abstract Class                                       |
| Day 60 | Abstract Class                                       |
| Day 61 | Public and Private Inheritance                       |
| Day 62 | Public and Private Inheritance                       |
| Day 63 | Ambiguity in Multiple inheritance                    |
| Day 64 | Virtual function                                     |
| Day 65 | Friend function                                      |
| Day 66 | Static function.                                     |
| Day 67 | Exception Handling                                   |
| Day 68 | Exception and derived class                          |
| Day 69 | template functions                                   |
| Day 70 | template functions                                   |
| Day 71 | function exception declaration, unexpected exception |
| Day 72 | exception when handling exception,                   |
| Day 73 | resource capture and release                         |
| Day 74 | Template and Standard Template Library               |
| Day 75 | iterators, hashes, iostreams and other types         |
| Day 76 | iterators, hashes, iostreams and other types         |
| Day 77 | Template classes, declaration                        |
| Day 78 | Template classes, declaration                        |
| Day 79 | namespace, string                                    |
| Day 80 | namespace, string                                    |
| Day 81 | Revision   |
| Day 82 | Revision   |
| Day 83 | Revision   |
| Day 84 | Previous Year Question Paper                         |
| Day 85 | Previous Year Question Paper                         |
| Day 86 | Previous Year Question Paper                         |
| Day 87 | Revision   |
| Day 88 | Revision   |
| Day 89 | Revision   |
| Day 90 | Revision   |

\*As per number of periods /week



**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|   |   |
|---|---|
| <b>Name of the professor: Ms. Kamiya and Ms.Ayeesha</b>                     |   |
| <b>Class And Section: BCA 4<sup>th</sup> Sem (Section-A and Section -B)</b> |   |
| <b>Subject: Software Engineering (BCA-209)</b>                              |   |
| Day 1   | Introduction of Syllabus  |
| Day 2   | Introduction to Software Crisis                                 |
| Day 3   | Introduction to Software Processes & Characteristics            |
| Day 4   | Introduction to Software life cycle models                      |
| Day 5   | Waterfall Model   |
| Day 6   | Prototype Model   |
| Day 7   | Evolutionary Model  |
| Day 8   | Spiral Model.   |
| Day 9   | Introduction to Software Requirements Analysis & Specifications |
| Day 10  | Requirement engineering   |
| Day 11  | Requirement elicitation techniques like FAST, QFD               |
| Day 12  | Requirements analysis using DFD                                 |
| Day 13  | Data dictionaries   |
| Day 14  | ER Diagrams   |
| Day 15  | Requirements documentation                                      |
| Day 16  | Nature of SRS, Characteristics & organization of SRS            |
| Day 17  | Revision of Unit-1  |
| Day 18  | Test of Unit-1  |
| Day 19  | Introduction to Software Project Management Concept             |
| Day 20  | The Management spectrum   |
| Day 21  | The People The Problem  |
| Day 22  | The Process   |
| Day 23  | The Project   |
| Day 24  | Introduction to Software Project Planning                       |
| Day 25  | Size Estimation   |
| Day 26  | Lines of Code   |
| Day 27  | Function Count  |
| Day 28  | Cost Estimation Models  |
| Day 29  | Introduction to COCOMO model                                    |
| Day 30  | Basic COCOMO model  |
| Day 31  | Intermediate COCOMO model                                       |
| Day 32  | Detailed COCOMO model   |
| Day 33  | Risk Management   |
| Day 34  | Risk Management(Continue...)                                    |
| Day 35  | Risk Management(Continue...)                                    |
| Day 36  | Revision of Project management                                  |
| Day 37  | Revision of Software Project Planning                           |
| Day 38  | Revision of COCOMO model  |
| Day 39  | Revision of Risk Management                                     |
| Day 40  | Revision of Line of Codes and Functional Count                  |
| Day 41  | Revision of Full Unit-2   |
| Day 42  | Test of Unit-2  |

|        |   |
|--------|---|
| Day 43 | Introduction to Software Design                           |
| Day 44 | Cohesion  |
| Day 45 | Classification of Cohesiveness                            |
| Day 46 | Coupling  |
| Day 47 | Classification of Coupling                                |
| Day 48 | Function Oriented Design                                  |
| Day 49 | Object Oriented Design                                    |
| Day 50 | Software Metrics  |
| Day 51 | Software measurements                                     |
| Day 52 | Token Count   |
| Day 53 | Halstead Software Science Measures                        |
| Day 54 | Design Metrics  |
| Day 55 | Data Structure Metrics                                    |
| Day 56 | Introduction to Software Implementation                   |
| Day 57 | Relationship between design and implementation            |
| Day 58 | Implementation issues and programming support environment |
| Day 59 | Coding the procedural design                              |
| Day 60 | Good coding style   |
| Day 61 | Revision of Cohesion and Coupling                         |
| Day 62 | Revision of Object oriented Design                        |
| Day 63 | Revision of Function Oriented Design                      |
| Day 64 | Revision of Unit-3  |
| Day 65 | Test of Unit-3  |
| Day 66 | Introduction to Software Testing                          |
| Day 67 | Testing Process   |
| Day 68 | Design of Test Cases                                      |
| Day 69 | Types of Testing  |
| Day 70 | Functional Testing  |
| Day 71 | Structural Testing  |
| Day 72 | Test Activities   |
| Day 73 | Unit Testing  |
| Day 74 | Integration Testing                                       |
| Day 75 | System Testing  |
| Day 76 | Debugging Activities.                                     |
| Day 77 | Introduction to Software Maintenance                      |
| Day 78 | Management of Maintenance                                 |
| Day 79 | Maintenance Process                                       |
| Day 80 | Reverse Engineering                                       |
| Day 81 | Software Re-engineering                                   |
| Day 82 | Configuration Management, Documentation                   |
| Day 83 | Test of Unit-4  |
| Day 84 | Previous Year Question Papers                             |
| Day 85 | Previous Year Question Papers                             |
| Day 86 | Revision of Full Syllabus                                 |
| Day 87 | Revision of Full Syllabus                                 |
| Day 88 | Revision of Full Syllabus                                 |
| Day 89 | Revision of Full Syllabus                                 |
| Day 90 | Revision of Full Syllabus                                 |

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|  |   |
|--|---|
| <b>Name of the professor: Ms. Gurpreet kaur</b>                            |   |
| <b>Class And Section : BCA 6<sup>th</sup> Sem(Section-A and Section-B)</b> |   |
| <b>Subject: E-Commerce(BCA – 306)</b>                                      |   |
| Day 1  | Electronic Commerce                                       |
| Day 2  | Overview of Electronic Commerce                           |
| Day 3  | Scope of Electronic Commerce,                             |
| Day 4  | Traditional Commerce vs. Electronic Commerce              |
| Day 5  | Traditional Commerce vs. Electronic Commerce              |
| Day 6  | Impact of E-Commerce                                      |
| Day 7  | Impact of E-Commerce                                      |
| Day 8  | Electronic Markets,                                       |
| Day 9  | Electronic Markets,                                       |
| Day 10   | Electronic Markets,                                       |
| Day 11   | Internet Commerce,  |
| Day 12   | E-commerce in perspective                                 |
| Day 13   | E-commerce in perspective                                 |
| Day 14   | Application of E Commerce                                 |
| Day 15   | Application of E Commerce in Direct Marketing and Selling |
| Day 16   | Application of E Commerce in Direct Marketing and Selling |
| Day 17   | Obstacles in adopting E-Commerce Applications             |
| Day 18   | Obstacles in adopting E-Commerce Applications             |
| Day 19   | Future of E Commerce                                      |
| Day 20   | Value Chains in electronic Commerce                       |
| Day 21   | Supply chain  |
| Day 22   | Supply chain  |
| Day 23   | Revision class  |
| Day 24   | Porter's value chain Model                                |
| Day 25   | Porter's value chain Model                                |
| Day 26   | Test Unit -1  |
| Day 27   | Inter Organizational value chains                         |
| Day 28   | Inter Organizational value chains                         |
| Day 29   | Strategic Business unit chains                            |
| Day 30   | Industry value chains                                     |
| Day 31   | Security Threats to E-commerce                            |
| Day 32   | Computer Security   |
| Day 33   | Copyright   |
| Day 34   | Copyright   |
| Day 35   | Intellectual Property rights                              |
| Day 36   | Intellectual Property rights                              |
| Day 37   | security Policy and Integrated Security,                  |
| Day 38   | Revision class  |
| Day 39   | Electronic Commerce Threats                               |
| Day 40   | Clients Threats   |
| Day 41   | Communication Channel Threats                             |
| Day 42   | server Threats  |
| Day 43   | Revision class  |
| Day 44   | Revision class  |
| Day 45   | Assignment 2  |
| Day 46   | Implementing security for E-Commerce                      |
| Day 47   | Implementing security for E-Commerce                      |

|        |  |
|--------|--|
| Day 48 | Protecting E-Commerce Assets,            |
| Day 49 | Protecting E-Commerce Assets,            |
| Day 50 | Revision class                           |
| Day 51 | Test unit-2                              |
| Day 52 | Protecting Client Computers              |
| Day 53 | Protecting Client Computers              |
| Day 54 | Protecting E-commerce Channels           |
| Day 55 | Insuring Transaction Integrity           |
| Day 56 | Insuring Transaction Integrity           |
| Day 57 | Electronic Payment System                |
| Day 58 | Electronic Cash,                         |
| Day 59 | Electronic Wallets                       |
| Day 60 | Smart Card                               |
| Day 61 | Credit and Change Card                   |
| Day 62 | Implementing security for E-Commerce     |
| Day 63 | Protecting E-Commerce Assets,            |
| Day 64 | Revision class                           |
| Day 65 | Protecting Client Computers              |
| Day 66 | Implementing security for E-Commerce     |
| Day 67 | Protecting E-Commerce Assets,            |
| Day 68 | Revision unit 3                          |
| Day 69 | Test unit-3                              |
| Day 70 | Assignment 3                             |
| Day 71 | Business to Business E-Commerce          |
| Day 72 | Business to Business E-Commerce          |
| Day 73 | Inter-organizational Transitions         |
| Day 74 | Credit Transaction                       |
| Day 75 | Trade Cycle and variety of transactions. |
| Day 76 | Trade Cycle and variety of transactions. |
| Day 77 | Revision class                           |
| Day 78 | Introduction of EDI                      |
| Day 79 | Benefits of EDI                          |
| Day 80 | EDI Technology                           |
| Day 81 | EDI standards                            |
| Day 82 | EDI Communication                        |
| Day 83 | EDI Implementation,                      |
| Day 84 | EDI agreement                            |
| Day 85 | EDI security.                            |
| Day 86 | Revision class                           |
| Day 87 | Test unit-4                              |
| Day 88 | Discuss previous year question papers    |
| Day 89 | Discuss previous year question papers    |
| Day 90 | Discuss previous year question papers    |

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|  |   |
|--|---|
| <b>Name of the professor: Ms. Sandhya, MsVishakha Garg</b>                 |   |
| <b>Class And Section: 6<sup>th</sup> Sem (Sec B, Sec A)</b>                |   |
| <b>Subject: Object Technologies &amp; Programming using Java (BCA-307)</b> |   |
| Day 1  | Paradigms of Programming Languages  |
| Day 2  | Paradigms of Programming Languages  |
| Day 3  | Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches |
| Day 4  | Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches |
| Day 5  | Evolution of OO Methodology, Basic Concepts of OO Approach, Comparison of Object Oriented and Procedure Oriented Approaches |
| Day 6  | Benefits of OOPs, Introduction to Common OO Language,   |
| Day 7  | Applications of OOPs .  |
| Day 8  | Applications of OOPs .  |
| Day 9  | Classes and Objects   |
| Day 10   | Classes and Objects   |
| Day 11   | Abstraction and Encapsulation   |
| Day 12   | Inheritance   |
| Day 13   | Method Overriding and Polymorphism  |
| Day 14   | Method Overriding and Polymorphism  |
| Day 15   | Method Overriding and Polymorphism  |
| Day 16   | Introduction To Java  |
| Day 17   | Basic Features  |
| Day 18   | Java Virtual Machine Concepts   |
| Day 19   | Java Virtual Machine Concepts,  |
| Day 20   | Primitive Data Type And Variables   |
| Day 21   | Primitive Data Type And Variables   |
| Day 22   | Java Operators  |
| Day 23   | Expressions   |
| Day 24   | Statements and Arrays   |
| Day 25   | Statements and Arrays   |
| Day 26   | Class and Objects-- Class Fundamentals  |
| Day 27   | Creating objects , Assigning object reference variables;  |
| Day 28   | Creating objects , Assigning object reference variables;  |
| Day 29   | Introducing Methods, Static methods   |
| Day 30   | Introducing Methods, Static methods   |
| Day 31   | Constructors  |
| Day 32   | Constructors  |
| Day 33   | Overloading constructors  |
| Day 34   | Overloading constructors  |
| Day 35   | This Keyword  |
| Day 36   | Using Objects as Parameters   |
| Day 37   | Argument passing  |
| Day 38   | Argument passing  |
| Day 39   | Returning objects   |
| Day 40   | Method overloading  |

|        |  |
|--------|--|
| Day 41 | Garbage Collection,  |
| Day 42 | The Finalize ( ) Method  |
| Day 43 | The Finalize ( ) Method  |
| Day 44 | Inheritance Basics   |
| Day 45 | Access Control   |
| Day 46 | Multilevel Inheritance,  |
| Day 47 | Method Overriding,Abstract Classes                             |
| Day 48 | Polymorphism, Final Keyword.                                   |
| Day 49 | Inheritance Basics   |
| Day 50 | Access Control   |
| Day 51 | Multilevel Inheritance   |
| Day 52 | Method Overriding  |
| Day 53 | Abstract Classes   |
| Day 54 | Polymorphism   |
| Day 55 | Final Keyword  |
| Day 56 | Defining Package   |
| Day 57 | CLASSPATH ,Package naming                                      |
| Day 58 | Accessibility of Packages ,using Package Members               |
| Day 59 | Accessibility of Packages ,using Package Members               |
| Day 60 | Revision   |
| Day 61 | Revision   |
| Day 62 | Test   |
| Day 63 | Test   |
| Day 64 | Implementing Interfaces  |
| Day 65 | Interface and Abstract Classes                                 |
| Day 66 | Extends and Implements together                                |
| Day 67 | Exception , Handling of Exception                              |
| Day 68 | Exception , Handling of Exception                              |
| Day 69 | Using try-catch , Catching Multiple Exceptions                 |
| Day 70 | Catching Multiple Exceptions                                   |
| Day 71 | Using finally clause   |
| Day 72 | Types of Exceptions  |
| Day 73 | Throwing Exceptions  |
| Day 74 | Throwing Exceptions  |
| Day 75 | Writing Exception Subclasses                                   |
| Day 76 | Introduction , The Main Thread                                 |
| Day 77 | Java Thread Model, Thread Priorities                           |
| Day 78 | Java Thread Model, Thread Priorities                           |
| Day 79 | I/O Basics, Streams and Stream Classes                         |
| Day 80 | I/O Basics, Streams and Stream Classes                         |
| Day 81 | The Predefined Streams   |
| Day 82 | Reading from and Writing to console                            |
| Day 83 | Reading and Writing Files                                      |
| Day 84 | The Transient and Volatile Modifiers                           |
| Day 85 | Using Instance of Native Methods.                              |
| Day 86 | Fundamentals of Characters and Strings, The String Class       |
| Day 87 | String Operations , Data Conversion using Value Of ( ) Methods |
| Day 88 | String Buffer Class and Methods                                |
| Day 89 | Revision   |
| Day 90 | Revision   |

**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|  |   |
|--|---|
| <b>Name of the professor: Ms.Kritika</b>                               |   |
| <b>Class and Section: BCA-6<sup>th</sup> Sem ( Section- A &amp; B)</b> |   |
| <b>Subject: Introduction to .NET (BCA-308)</b>                         |   |
| Day 1  | Introduction  |
| Day 2  | The Framework of .Net                                   |
| Day 3  | Building blocks of .Net Platform (the CLR, CTS and CLS) |
| Day 4  | Building blocks of .Net Platform (the CLR, CTS and CLS) |
| Day 5  | Features of .Net  |
| Day 6  | Features of .Net  |
| Day 7  | Revision  |
| Day 8  | Deploying the .Net Runtime                              |
| Day 9  | Deploying the .Net Runtime                              |
| Day 10   | Architecture of .Net platform                           |
| Day 11   | Architecture of .Net platform                           |
| Day 12   | Introduction to namespaces & type distinction           |
| Day 13   | Introduction to namespaces & type distinction           |
| Day 14   | Revision  |
| Day 15   | Doubt Class   |
| Day 16   | Types & Object in .Net                                  |
| Day 17   | Types & Object in .Net                                  |
| Day 18   | The evolution of Web development                        |
| Day 19   | The evolution of Web development                        |
| Day 20   | Revision  |
| Day 21   | Doubt Class   |
| Day 22   | Test  |
| Day 23   | Class Libraries in .Net                                 |
| Day 24   | Class Libraries in .Net                                 |
| Day 25   | Introduction to Assemblies & Manifest in .Net,          |
| Day 26   | Introduction to Assemblies & Manifest in .Net,          |
| Day 27   | Revision  |
| Day 28   | Metadata & attributes                                   |
| Day 29   | Metadata & attributes                                   |
| Day 30   | Introduction to C#                                      |
| Day 31   | Characteristics of C#                                   |
| Day 32   | Data types: Value types, reference types                |
| Day 33   | Data types: Value types, reference types                |
| Day 34   | Revision  |
| Day 35   | Doubt Class   |
| Day 36   | default value   |
| Day 37   | constants, variables                                    |
| Day 38   | constants, variables                                    |
| Day 39   | scope of variables                                      |
| Day 40   | scope of variables                                      |
| Day 41   | boxing and unboxing                                     |
| Day 42   | Operators and expressions: Arithmetic, relational       |
| Day 43   | logical, bitwise  |
| Day 44   | special operators                                       |
| Day 45   | Revision  |

|        |  |
|--------|--|
| Day 46 | Doubt Class  |
| Day 47 | evolution of expressions                                     |
| Day 48 | evolution of expressions                                     |
| Day 49 | operator precedence & associativity                          |
| Day 50 | operator precedence & associativity                          |
| Day 51 | Control constructs in C#:                                    |
| Day 52 | Control constructs in C#:                                    |
| Day 53 | Decision making  |
| Day 54 | Decision making, loops                                       |
| Day 55 | Revision   |
| Day 56 | Classes & methods: Class, methods                            |
| Day 57 | Classes & methods: Class, methods                            |
| Day 58 | constructors, destructors                                    |
| Day 59 | constructors, destructors                                    |
| Day 60 | constructors, destructors                                    |
| Day 61 | overloading of operators & functions                         |
| Day 62 | overloading of operators & functions                         |
| Day 63 | Revision   |
| Day 64 | Doubt Class  |
| Day 65 | Inheritance & polymorphism: visibility control               |
| Day 66 | Inheritance & polymorphism: visibility control               |
| Day 67 | overriding   |
| Day 68 | overriding   |
| Day 69 | abstract class & methods                                     |
| Day 70 | abstract class & methods                                     |
| Day 71 | Revision   |
| Day 72 | Sealed classes & methods                                     |
| Day 73 | Sealed classes & methods                                     |
| Day 74 | interfaces   |
| Day 75 | interfaces   |
| Day 76 | Advanced features of C#: Exception handling & error handling |
| Day 77 | Advanced features of C#: Exception handling & error handling |
| Day 78 | Advanced features of C#: Exception handling & error handling |
| Day 79 | automatic memory management                                  |
| Day 80 | automatic memory management                                  |
| Day 81 | Input and output (Directories, Files, and streams).          |
| Day 82 | Input and output (Directories, Files, and streams).          |
| Day 83 | Doubt Class  |
| Day 84 | Revision Test  |
| Day 85 | Discussion of Previous Year Question Paper                   |
| Day 86 | Discussion of Previous Year Question Paper                   |
| Day 87 | Discussion of Previous Year Question Paper                   |
| Day 88 | Discussion of Previous Year Question Paper                   |
| Day 89 | Full Syllabus Test   |
| Day 90 | Full Syllabus Test   |



**K.L MEHTA DAYANAND COLLEGE FOR WOMEN, FARIDABAD**  
**LESSON PLAN FOR THE SESSION 2023-24**

|   |   |
|---|---|
| <b>Name of the professor: Ms. Kamiya Chugh</b>                              |   |
| <b>Class And Section: BCA 6<sup>th</sup> Sem (Section-A and Section -B)</b> |   |
| <b>Subject: Artificial Intelligence(BCA-308)</b>                            |   |
| Day 1   | Introduction to AI                                  |
| Day 2   | Introduction to AI                                  |
| Day 3   | Importance of AI                                    |
| Day 4   | AI and its related field                            |
| Day 5   | AI and its related field                            |
| Day 6   | AI techniques                                       |
| Day 7   | AI techniques                                       |
| Day 8   | Applications of AI                                  |
| Day 9   | Programming Languages                               |
| Day 10  | Test  |
| Day 11  | Problems, problem space and search                  |
| Day 12  | Defining the problem as a state space search        |
| Day 13  | Production system and its characteristics           |
| Day 14  | Production system and its characteristics           |
| Day 15  | Issues in the design of the search problem          |
| Day 16  | Issues in the design of the search problem          |
| Day 17  | Test  |
| Day 18  | Heuristic search techniques                         |
| Day 19  | Heuristic search techniques                         |
| Day 20  | Generate and test                                   |
| Day 21  | Generate and test                                   |
| Day 22  | Hill climbing                                       |
| Day 23  | Hill climbing                                       |
| Day 24  | Best first search technique                         |
| Day 25  | Best first search technique                         |
| Day 26  | Problem reduction                                   |
| Day 27  | Problem reduction                                   |
| Day 28  | Constraint satisfaction                             |
| Day 29  | Constraint satisfaction                             |
| Day 30  | Test  |
| Day 31  | Definition and importance of knowledge              |
| Day 32  | Knowledge representation                            |
| Day 33  | Various approaches used in knowledge representation |
| Day 34  | Various approaches used in knowledge representation |
| Day 35  | Issues in knowledge representation                  |
| Day 36  | Issues in knowledge representation                  |
| Day 37  | Test  |
| Day 38  | Using Predicate Logic                               |

|        |  |
|--------|--|
| Day 39 | Representing Simple Facts in logic           |
| Day 40 | Representing Simple Facts in logic           |
| Day 41 | Representing instances and is_a relationship |
| Day 42 | Representing instances and is_a relationship |
| Day 43 | Computable function and predicate            |
| Day 44 | Computable function and predicate            |
| Day 45 | Test   |
| Day 46 | Introduction to Natural Language Processing  |
| Day 47 | Introduction to Natural Language Processing  |
| Day 48 | Syntactic processing                         |
| Day 49 | Syntactic processing                         |
| Day 50 | Semantic processing                          |
| Day 51 | Semantic processing                          |
| Day 52 | Discourse and pragmatic processing.          |
| Day 53 | Discourse and pragmatic processing.          |
| Day 54 | Applications Of NLP                          |
| Day 55 | Test   |
| Day 56 | Introduction learning                        |
| Day 57 | Learning system model                        |
| Day 58 | Rote Learning                                |
| Day 59 | Learning by taking advice                    |
| Day 60 | Learning in problem solving                  |
| Day 61 | Learning in problem solving                  |
| Day 62 | Learning from example-induction              |
| Day 63 | Learning from example-induction              |
| Day 64 | Explanation based learning                   |
| Day 65 | Explanation based learning                   |
| Day 66 | Test   |
| Day 67 | Introduction to Expert System                |
| Day 68 | Introduction to Expert System                |
| Day 69 | Representing using domain specific knowledge |
| Day 70 | Representing using domain specific knowledge |
| Day 71 | Expert system shells                         |

|        |  |
|--------|--|
| Day 72 | Expert system shells                     |
| Day 73 | Test                                     |
| Day 74 | Revision of Unit - 1                     |
| Day 75 | Revision of Unit - 1                     |
| Day 76 | Test of Unit-1                           |
| Day 77 | Revision of Unit - 2                     |
| Day 78 | Revision of Unit - 2                     |
| Day 79 | Test of Unit-2                           |
| Day 80 | Revision of Unit - 3                     |
| Day 81 | Revision of Unit - 3                     |
| Day 82 | Test of Unit-3                           |
| Day 83 | Revision of Unit - 4                     |
| Day 84 | Revision of Unit - 4                     |
| Day 85 | Test of Unit-4                           |
| 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 | Revision                                 |

\*As per number of periods /week