

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

**Name of the Teacher- Ms. Sakshi Aneja**

**Subject- Computer Science**

**BCA-112 Windows and PC Software**

**Class- BCA I**

<b>3<sup>rd</sup> Week</b>	
Nov. 16- Nov 21	<b>WINDOWS:</b> Introduction to Windows and its Features, Hardware Requirements of Windows. Windows Concepts, Windows Structure, Desktop, Taskbar, Start Menu, My Pictures, My Music, My Documents, Recycle Bin.
November 22, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Nov. 23- Nov 28	Managing Files, Folders and Disk .My Computer, Windows Explorer and its Facilities, Using CD, DVD, Pen Drive, Burning CD. Windows Accessories. Entertainment- Media Players, Sound Recorder, Volume Control
November 29, 2020	Sunday
November 30, 2020	Guru Nanak's Birthday
<b>December 2020</b>	
<b>1<sup>st</sup> Week</b>	
December 1 - Dec 5	Managing Hardware & Software - Installation of Hardware & Software, Using Scanner, Web Camera, Printers. System Tools - Backup, Character Map, Clipboard Viewer, Disk Defragmenter, Drive Space, Scandisk.
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Dec 7 Dec 9 - Dec 12	System Information, System Monitor, Disk Cleanup, Using Windows Update. Browsing the Web with Internet Explorer, Multiple User Features of Windows, Creating and Deleting User, Changing User Password, etc
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Dec 14 - Dec 19	Accessibility Features of Windows - Sharing Folders and Drives, Browsing the Entire Network, Using Shared Printers. Control Panel & its components
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Dec 21 - Dec 24	<b>WORKING WITH SPREAD SHEET:</b> Introduction and area of use, Working with Excel, Toolbars, Menus and Keyboard Shortcuts, concepts of Workbook
December 25, 2020	Christmas Day
December 27, 2020	Sunday
<b>5<sup>th</sup> Week</b>	
Dec 28 - Dec 29	Revision

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Subject- Computer Science

BCA-112 Windows and PC Software

Class- BCA I

<b>January 2021</b>	
<b>1<sup>st</sup> Week</b>	
January 01-02, 2021	Worksheets, Using Wizards, Various Data Types, Using different features with Data, Cell and Texts, Inserting, Removing & Resizing of Columns & Rows, Working with Data & Ranges, Different Views of Worksheets, Column Freezing
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
January 04-09, 2021	Labels, Hiding, Splitting etc., Using different features with Data and Text, Cell Formatting including Borders & Shading.
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
January 11-16, 2021	<b>ADVANCED FEATURES OF EXCEL:</b> Multiple Worksheets: Concept, Creating and Using Multiple Worksheets; Use of Formulas, Calculations & Functions, Various types of Functions.
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
January 18-19, 2021 January 21-23, 2021	Sessional Examinations
January 20, 2021	Guru Gobind Singh Jayanti
January 24, 2021	Sunday
<b>5<sup>th</sup> Week</b>	
January 27-29, 2021	Cell Referencing, Absolute and Relative Addressing, Working with Different Chart Types
January 26, 2021	Republic Day
January 31, 2021	Sunday
<b>February 2021</b>	
<b>1<sup>st</sup> Week</b>	
February 1-6, 2021	Chart Wizard, Printing of Workbook & Worksheets with various options, Database: Creation, Sorting, Query and Filtering a Database; Creating and Using Macros;
<b>2<sup>nd</sup> Week</b>	
February 8-13, 2021	Pivot table & Pivot chart
February 07, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
February 15, 17-19 2021	Revision of the syllabus and Tests
February 14, 2021	Sunday
February 16, 2021	Vasant Panchami

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Sakshi Aneja

Subject- Computer Science

BCA-234 (Software Engineering)

Class- BCA II

<b>October 2020</b>	
<b>3<sup>rd</sup> Week</b>	
October 16, 2020	Program vs. Software, Software Engineering, Programming paradigms,
October 17, 2020	Maharaja Agrasen Jayanti
October 18, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
October 19, 2020	Software Crisis – problem and causes, Phases in Software development:
Oct. 21	Requirement Analysis, Software Design, Coding, Testing, Maintenance,
Oct 23-Oct 24	Software Development Process
October 25, 2020	Sunday (Dussehra)
<b>5<sup>th</sup> Week</b>	
October 26, 2020	Models: Waterfall, Prototype, Evolutionary and Spiral models, Role of
Oct 29-Oct 30	Metrics
	Revision and Tests of Unit I
October 31, 2020	Maharishi Valmiki Jayanti
<b>November 2020</b>	
<b>1<sup>st</sup> Week</b>	
November 01, 2020	Sunday (Haryana Day)
Nov 3	Feasibility Study, Software Requirement Analysis and Specifications: SRS
Nov. 5- Nov 7	
November 08, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
November 14, 2020	Diwali
November 15, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Nov. 16- Nov 21	Need for SRS, Characteristics of an SRS, Components of an SRS, Problem Analysis, Information gathering tools, Organizing and structuring information, Requirement specification, validation and Verification, SCM
November 22, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Nov. 23- Nov 28	Revision and Tests of Unit II
November 29, 2020	Sunday
November 30, 2020	Guru Nanak's Birthday

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Sakshi Aneja

Subject- Computer Science

BCA-234 (Software Engineering)

Class- BCA II

<b>December 2020</b>	
<b>1<sup>st</sup> Week</b>	
Dec 1 - Dec 5	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Dec 7 Dec 9 - Dec 12	Decision table, Decision tress, Structured English, Entity-Relationship diagrams,
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Dec 14 - Dec 19	Cohesion and Coupling Gantt chart, PERT Chart, Software Maintenance
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Dec 21 - Dec 24	Type of maintenance, Management of Maintenance, Maintenance Process, maintenance characteristics
December 25, 2020	Christmas Day
December 27, 2020	Sunday
<b>5<sup>th</sup> Week</b>	
Dec 28 - Dec 29	Revision
<b>January 2021</b>	
<b>1<sup>st</sup> Week</b>	
January 01-02, 2021	Software Project Planning: Cost estimation: COCOMO model
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
January 04-09, 2021	Project scheduling, Staffing and personnel planning, team structure
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
January 11-16, 2021	Software configuration management, Quality assurance plans
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
January 18-19, 2021 January 21-23, 2021	Sessional Examinations
January 20, 2021	Guru Gobind Singh Jayanti
January 24, 2021	Sunday
<b>5<sup>th</sup> Week</b>	
January 27-29, 2021	Project monitoring plans, Risk Management
January 26, 2021	Republic Day
January 31, 2021	Sunday

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Sakshi Aneja

Subject- Computer Science

BCA-234 (Software Engineering)

Class- BCA II

February 2021	
<b>1<sup>st</sup> Week</b>	
February 1-6, 2021	Software testing strategies: unit testing, integration testing, Validation testing, System testing, Alpha and Beta testing.
<b>2<sup>nd</sup> Week</b>	
February 8-13, 2021	Validation testing, System testing, Alpha and Beta testing.
February 07, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
February 15, 17-19 2021	Revision of the syllabus and Tests
February 14, 2021	Sunday
February 16, 2021	Vasant Panchami

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher-Ms. Sakshi Aneja

Subject- Computer Science

BCA-352 (Operating System-I)

Class- BCA III

<b>October 2020</b>	
<b>3<sup>rd</sup> Week</b>	
October 16, 2020	Operating System: Definition, Characteristics, Components, Functions. Examples; Types of Operating System: Single User, Multi User
October 17, 2020	Maharaja Agrasen Jayanti
October 18, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
October 19, 2020 Oct. 21 Oct 23-Oct 24	Classification of Operating System: Batch, Multiprogrammed, Timesharing, Multiprocessing, Parallel, Distributed, Real Time; System Calls and System Programs Process Control,
October 25, 2020	Sunday (Dussehra)
<b>5<sup>th</sup> Week</b>	
October 26, 2020 Oct 29-Oct 30	Revision and Tests of Unit I
October 31, 2020	Maharishi Valmiki Jayanti
<b>November 2020</b>	
<b>1<sup>st</sup> Week</b>	
November 01, 2020	Sunday (Haryana Day)
Nov 3 Nov. 5- Nov 7	Process Management: Process concept, Process states and Process Control Block; Process Scheduling
November 08, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
November 14, 2020	Diwali
November 15, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Nov. 16- Nov 21	Scheduling Queues, Schedulers, Context Switch; Operation on Processes: Process Creation, Process Termination; Cooperating Processes, Introduction to Threads, Inter-process Communication
November 22, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Nov. 23- Nov 28	CPU Scheduling: Basic Concepts, Scheduling Criteria, Scheduling Algorithms: FCFS, SJF, Priority, Round-Robin, Multilevel Queue, Multilevel Feedback Queue Scheduling
November 29, 2020	Sunday
November 30, 2020	Guru Nanak's Birthday

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher-Ms. Sakshi Aneja

Subject- Computer Science

BCA-352 (Operating System-I)

Class- BCA III

<b>December 2020</b>	
<b>1<sup>st</sup> Week</b>	
Dec 1 - Dec 5	Deadlocks: System Model, Deadlock Characterization, Methods of Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Dec 7 Dec 9 - Dec 12	Memory Management: Introduction, Swapping, Contiguous Allocation: Single-Partition/Multiple Partition Allocation, External/Internal Fragmentation
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Dec 14 - Dec 19	Paging: Basic Method, Hardware, Implementation of Page table;
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Dec 21 - Dec 24	Segmentation: Basic Method, Hardware, Implementation of Segment Table, Advantages/Disadvantages of Paging/Segmentation
December 25, 2020	Christmas Day
December 27, 2020	Sunday
<b>5<sup>th</sup> Week</b>	
Dec 28 - Dec 29	Revision
<b>January 2021</b>	
<b>1<sup>st</sup> Week</b>	
January 01-02, 2021	Virtual Memory: Introduction, Demand Paging,
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
January 04-09, 2021	Page Replacement, Page Replacement Algorithms:FIFO, Optimal
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
January 11-16, 2021	LRU, Counting; Thrashing and its cause;
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
January 18-19, 2021 January 21-23, 2021	Sessional Examinations
January 20, 2021	Guru Gobind Singh Jayanti
January 24, 2021	Sunday
<b>5<sup>th</sup> Week</b>	
January 27-29, 2021	File Management: File Concepts, File Attributes, File Operations
January 26, 2021	Republic Day
January 31, 2021	Sunday

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Sakshi Aneja

Subject- Computer Science

BCA-352 (Operating System-I)

Class- BCA III

February 2021	
<b>1<sup>st</sup> Week</b>	
February 1-6, 2021	File Types, File Access/Allocation Methods, File Protection, File Recovery
<b>2<sup>nd</sup> Week</b>	
February 8-13, 2021	Revision of the syllabus and Tests
February 07, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
February 15, 17-19 2021	Revision of the syllabus and Tests
February 14, 2021	Sunday
February 16, 2021	Vasant Panchami



## Lesson plan for the Odd Semester (Jan, 2020 to March, 2021)

Name of the Teacher- Ms. Sakshi Aneja

Subject- Computer Science

MS-15-13 SOFTWARE ENGINEERING

Class- M.Sc CS-I

<b>January 2021</b>	
<b>1<sup>st</sup> Week</b>	
January 01-02, 2021	Introduction: Software Crisis-problem and causes, Software Processes, Software life cycle models: Waterfall, Prototype, Evolutionary and Spiral models, Overview of Quality Standards like ISO 9001, SEI-CMM, CMMI, PCMM, Six Sigma.
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
January 04-09, 2021	Software Metrics: Size Metrics like LOC, Token Count, Function Count, Design Metrics, Data Structure Metrics, Information Flow Metrics, cyclomatic complexity, Halstead Complexity measures.
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
January 11-16, 2021	Software Project Planning: Cost estimation, static, Single and multivariate models, COCOMO model, Putnam Resource Allocation Model, Risk management, project scheduling, personnel planning, team structure, Software configuration management, quality assurance, project monitoring.
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
January 18-19, 2021	Sessional Examinations
January 21-23, 2021	
January 20, 2021	Guru Gobind Singh Jayanti
January 24, 2021	Sunday
<b>5<sup>th</sup> Week</b>	
January 27-29, 2021	Software Requirement Analysis and Specifications: Structured Analysis, Data Flow Diagrams, Data Dictionaries, Entity-Relationship diagrams, Software Requirement and Specifications, Behavioral and non-behavioral requirements.
January 26, 2021	Republic Day
January 31, 2021	Sunday

**Name of the Teacher- Ms. Sakshi Aneja**  
**Subject- Computer Science**  
**MS-15-13 SOFTWARE ENGINEERING**  
**Class- M.Sc CS-I**

<b>February 2021</b>	
<b>1<sup>st</sup> Week</b>	
February 1-6, 2021	Software Design: Design fundamentals, problem partitioning and abstraction, design methodology, Cohesion & Coupling, Function Oriented Design and User Interface Design. Coding: Programming style, structured programming.
<b>2<sup>nd</sup> Week</b>	
February 8-13, 2021	Software reliability: Metric and specification, Musa and JM reliability model, fault avoidance and tolerance, exception handling, defensive programming.
February 07, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
February 15, 17-19 2021	Software Testing: Functional testing: Boundary Value Analysis, Equivalence class testing, Cause effect graphing
February 14, 2021	Sunday
February 16, 2021	Vasant Panchami
February 17-19, 2021	Structural testing: Control flow based and data flow based testing, loop testing, mutation testing, load, stress and performance testing.
February 21, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
February 25-27, 2021	software testing strategies: unit testing, integration testing, System testing, Alpha and Beta testing, debugging. Static Testing: Formal Technical Reviews, Walk Through, Code Inspection.
February 28, 2021	Sunday
<b>March 2021</b>	
<b>1<sup>st</sup> Week</b>	
March 5-6, 2021	Software Maintenance: Types of Maintenance, Maintenance Process, Maintenance characteristics. Reverse Engineering, Software Re-engineering.
March 7, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
March 12-13, 2021	Revision & Testing
March 8, 2021	Maharishi Dayanand Jyanti
March 11, 2021	Maha Shivaratri

## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher- Ms. Harbinder Kaur

Class-BCA 1<sup>st</sup> Sem

Subject- BCA-116 (Programming in C)

3 <sup>rd</sup> Week 16 -21 Nov	History of C, Importance of C, Structure of a C Program.
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov 27 Nov-28 Nov	C character set, identifiers and keywords, Data types, Constants and Variables, Assignment statement, Symbolic constant.
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 01-05 Dec	Input/output: Unformatted & formatted I/O function in C, Input functions scanf(), getch(), getche(), getchar(), gets() ), Output functions printf(), putchar(), puts() .
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Dec-12 Dec	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators.
13 Dec, 2020	<b>Sunday</b>
3 <sup>rd</sup> Week 14 Dec-19 Dec	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators. & Group Discussion.
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21 -24&26 Dec	Decision making & branching: Decision making with IF statement, IF -ELSE state ment, Nested IF statement, ELSE -IF ladder, switch statement, goto statement.
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week 29 Dec-31 Dec, 2020	Decision making & looping: While and do-while loop
January, 2021 1 <sup>st</sup> Week 01-02 Jan, 2021	Looping: For, jumps in loops, break, continue statement.
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 Jan-09 Jan	Functions: Definition, prototype, Passing parameters to functions, Recursion & its uses
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Jan-16 Jan	Revisions ,Discussions & Tests
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>

Name of the Teacher- Ms. Harbinder Kaur  
Class-BCA 1<sup>st</sup> Sem  
Subject- BCA-116 (Programming in C)

4 <sup>th</sup> Week 18 -19Jan 21-23 Jan	Sessional Exams
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 25 Jan, 27-29 Jan 31 Jan, 2021	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime. <b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 Feb-06 Feb 07 Feb, 2021	Arrays: Definition, types, initialization, processing an array, passing arrays to functions, <b>Sunday</b>
2 <sup>nd</sup> Week 08 Feb-13 Feb 14 Feb, 2021	Strings and its inbuilt functions, and how to use string as parameters and use with pointers. <b>Sunday</b>
3 <sup>rd</sup> Week 15 Feb, 18-20 Feb 16 Feb, 2021 21 Feb, 2021	Syllabus Revision and Group Discussions. <b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week 22 Feb, 2021	Problem Discussions & Solutions.

## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher- Ms. Harbinder Kaur

Class-BCA 3<sup>rd</sup> Sem

Subject- BCA-231 (Object Oriented Programming using C++ )

3 <sup>rd</sup> Week 16 Oct	What is Object Oriented Programming & How it differs from C.
17 Oct, 2020 18 Oct, 2020	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 19 -24 Oct	Object oriented Programming: Object-Oriented programming features and benefits. Object-Oriented features of C++, Class and Objects, Data Hiding & Encapsulation.
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 26 Oct, 28-30 Oct	Structures, Data members and Member functions, Scope resolution operator and its significance.
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 02 -07 Nov	Static Data Members, Static member functions, Nested and Local Class, Accessing Members of Class and Structure.
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 09 Nov-13 Nov	Constructor, Initialization using constructor, types of constructor– Default, Parameterized & Copy Constructors, Constructor overloading, Default Values to Parameters, Destructors.
14 Nov, 2020 15 Nov, 2020	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week 16--21 Nov	Revision of Topics
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov 27 Nov-28 Nov	Console I/O: Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations.
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 01-05 Dec	Polymorphism: Operators in C++, Precedence and Associativity Rules, Operator Overloading, Unary & Binary Operators Overloading.
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Dec-12 Dec	Function Overloading, Inline Functions Group Discussion and Tests
13 Dec, 2020	<b>Sunday</b>
3rd Week 14 Dec-19 Dec	Manipulators, Friend Function, Friend Class.
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21 -24&26 Dec	Array of Objects, Passing and Returning Objects to Functions.
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>

Name of the Teacher- Ms. Harbinder Kaur  
 Class-BCA 3<sup>rd</sup> Sem  
 Subject- BCA-231 (Object Oriented Programming using C++ )

5 <sup>th</sup> Week 29 Dec-31 Dec 2020	String Handling in C++.
January, 2021 1 <sup>st</sup> Week 01Jan-02 Jan, 2021	Dynamic Memory Management
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 Jan-09 Jan	Pointers, new and delete Operator, Array of Pointers to Objects
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Jan-16 Jan	This Pointer, how to use pointer in array and functions as parameter or as return type.
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	<b>Sessional Exams</b>
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 25 Jan, 27-29 Jan	Passing Parameters to Functions by Reference & pointers.
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 Feb-06 Feb	Discuss important topics for Exam
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Feb-13 Feb	Discuss important topics for Exam
14 Feb, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Feb, 17-20 Feb	Revision of Syllabus and Class Tests
16 Feb, 2021 21 Feb, 2021	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week 22 Feb, 2021	Revision of Syllabus and Class Tests

## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher- Ms. Harbinder Kaur

Class-BCA 5<sup>th</sup> Sem

Subject- BCA-355 (Programming Using Visual Basic)

3 <sup>rd</sup> Week 16 Oct	Introduction to VB: Visual & Non-Visual programming, Procedural, Object-Oriented, Object-Based and Event-Driven Programming Languages
17 Oct, 2020 18 Oct, 2020	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 19 -24 Oct	
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 26 Oct, 28-30 Oct	Basics of Programming: Variables: Declaring Variables, Types of variables, VB as Even-Driven and Object-Based Language, VB Environment: Menu bar, Toolbar, Project explorer, Toolbox, Properties Window, Form Designer, Form Layout, Immediate window, Default Controls in Tool Box Visual Development and Event Driven programming. Converting Variables Types, User Defined Data Types.
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 02 -07 Nov	Forcing Variable Declaration, Scope & Lifetime of Variables. Constants: Named & Intrinsic, Operators: Arithmetic, Relational & Logical operators, Input/output in VB: Various Controls for I/O, Message box, Input Box, Print statement.
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 09 Nov-13 Nov	Revision and Discussion Programming
14 Nov, 2020 15 Nov, 2020	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week 16--21 Nov	Decision Statements in VB - if statement, if-then-else, select-case; Looping Statements in VB: do-loop, for-next, while-wend; Exit statement, Nested Control Structure
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov 27 Nov-28 Nov	Arrays: Declaring and using Arrays, One-dimensional, Two-dimensional and Multi-dimensional Arrays, Static and Dynamic arrays, Array of Arrays.
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 01-05 Dec	Procedures: General & Event Procedures, Subroutines, Functions
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Dec-12 Dec	Calling Procedures, Arguments - Passing Mechanisms, Optional Arguments, Named Arguments, Functions Returning Custom Data Types
13 Dec, 2020	<b>Sunday</b>

Name of the Teacher- Ms. Harbinder Kaur  
 Class-BCA 5<sup>th</sup> Sem  
 Subject- BCA-355 (Programming Using Visual Basic)

3rd Week 14 Dec-19 Dec	Problem Discussion & Programs
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21 -24&26 Dec	Various programs to use the Intrinsic Controls
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week 29 Dec-31 Dec 2020	Simple Program Development in VB such as Sum of Numbers, Using Variables as well as with controls
January, 2021 1 <sup>st</sup> Week 01Jan-02 Jan, 2021	Greatest among Numbers, Checking Even/Odd Number Various other program of control structures
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 Jan-09 Jan	HCF of Two Numbers, Generate Prime Numbers Other programs
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 12 Jan-16 Jan	Generate Fibonacci Series, Factorial of a Number etc.
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	<b>Sessional Exams</b>
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 25 Jan, 27-29 Jan	. Searching, Sorting (Selection, Bubble, Insertion)
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 Feb-06 Feb	Revision of Syllabus
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Feb-13 Feb	Revision of Syllabus and Class Tests
14 Feb, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Feb, 17-20 Feb	Revision of Syllabus and Class Tests
16 Feb, 2021 21 Feb, 2021	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week 22 Feb, 2021	Revision of Syllabus and Class Tests



## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Harbinder Kaur

Class-M.Sc Computer Science (Software) 1<sup>st</sup> Sem.

Subject- MS-15-12 (DATA STRUCTURES AND ALGORITHMS)

2 <sup>nd</sup> Week <b>07 Jan-09 Jan</b>	Introduction to Algorithms: Role of algorithms in computing, Complexity of algorithms, Analyzing algorithms, designing algorithms, asymptotic notations.
<b>10 Jan, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>14 Jan-16 Jan</b>	Divide and Conquer: Complexity of iterative programs and recursive programs, solving recurrence equations: back substitution method, recursion tree method, masters theorem.
<b>17 Jan, 2021</b> <b>20 Jan, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>Jan 21-23 Jan</b>	<b>Sessional Exams</b>
<b>24 Jan, 2021</b> <b>26 Jan. 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week <b>Jan 28-29 Jan</b>	Analysis of heap sort and quick sort; Counting sort, Radix sort, Bucket sort, Lower bounds for sorting.
<b>31 Jan, 2021</b>	<b>Sunday</b>
<b>February, 2021</b> 1 <sup>st</sup> Week <b>04 Feb-06 Feb</b>	Dynamic Programming (DP): Elements of DP, Matrix chain multiplication, Longest common subsequence, optimal binary search trees. Greedy Techniques (GT): Elements of GT, Activity selection problem, Huffman codes, Knapsack Problem.
<b>07 Feb, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>08,09 Feb-13 Feb</b>	Graph Algorithms: Single source shortest path: Analysis of Dijkstra's Algorithm, Limitations of Dijkstra's Algorithm, Negative weight cycle, Bellman-Ford algorithm.
<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>Feb 18-20 Feb</b>	Maximum Flow: Flow network, Ford-Fulkerson method. Computational complexity: Notion of Polynomial time algorithms, Complexity classes: P, NP, NP-Hard and NP-Complete, Polynomial time verification, Reducibility, NP-Completeness.
<b>16 Feb, 2021</b> <b>21 Feb, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>Feb 25-27 Feb</b>	All Pairs Shortest Path: Relation of Shortest path and matrix multiplication, Analysis of Floyd Warshall algorithm.
February 28, 2021	<b>Sunday</b>
1 <sup>st</sup> Week <b>March 5-6,2021</b>	Revision of Syllabus and Class Tests
<b>March 7, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>March 12-13, 2021</b>	Revision of Syllabus and Class Tests
<b>March 8, 2021</b>	<b>Maharishi Dayanand Jyanti</b>
<b>March 11,2021</b>	<b>Maha Shivaratri</b>

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Harbinder Kaur

Class-M.Sc Computer Science (Software) 3<sup>rd</sup> Sem.

Subject- MS-15-31 (OBJECT ORIENTED ANALYSIS AND DESIGN USING UML)

3 <sup>rd</sup> Week 16 Oct	Modeling as a Design Technique: Abstraction, Encapsulation, Modularity.
17 Oct, 2020 18 Oct, 2020	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 19 -24 Oct	Hierarchy, Typing, Concurrency, Persistence of objects. Purpose of modeling, Class Model – Object & Class, Links & Associations
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 26 Oct, 28-30 Oct	Generalization & Inheritance, Association Ends - Multiplicity, Role names, Ordering,
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 02 -07 Nov	Qualification, Aggregation, Link attributes & Link class, Abstract class, Metadata, Constraints. Constructing class diagram.
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 09 Nov-13 Nov	State Modeling: Event, State, Activity, Action, Transitions & Conditions, State diagrams, Nested state diagrams.
14 Nov, 2020 15 Nov, 2020	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week 16--21 Nov	Signal generalization, concurrency, relationships between class and state models. Discussions
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov 27 Nov-28 Nov	Interaction Modeling: use case models, use case relationships, sequence models, procedural sequence models, activity models, special constructs for activity models.
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 01-05 Dec	System Analysis & design: System development stages, system conception.
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Dec-12 Dec	analysis, domain class model, domain state model, iterating the analysis. Application interaction model, application class model, application state model, adding operations.
13 Dec, 2020	<b>Sunday</b>
3rd Week 14 Dec-19 Dec	System Design: estimating performance, make a reuse plan, organize the system into subsystem, identifying concurrency, allocating subsystems to processors and tasks, management of data stores, handling global resources.

**Name of the Teacher- Ms. Harbinder Kaur**  
**Class-M.Sc Computer Science (Software) 3<sup>rd</sup> Sem.**  
**Subject- MS-15-31 (OBJECT ORIENTED ANALYSIS AND DESIGN USING UML)**

<b>20 Dec, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>21 -24&amp;26 Dec</b>	choosing software control strategies, handling boundary conditions, setting trade-off priorities, selecting an architect style.
<b>25 Dec, 2020</b> <b>27 Dec, 2020</b>	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week <b>29 Dec-31 Dec 2020</b>	Class Design: bridging gap, realize use cases with operations.
<b>January, 2021</b> 1 <sup>st</sup> Week <b>01Jan-02 Jan, 2021</b>	designing algorithms, design optimization, adjustment of inheritance, organize classes & associations.
<b>03 Jan, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>04 Jan-09 Jan</b>	UML: Principles of modeling, UML Things – Structural, Behavioral, Grouping, Annotational.
<b>10 Jan, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>12 Jan-16 Jan</b>	Relationships in UML – Dependency, Association, Generalization, Realization.
<b>17 Jan, 2021</b> <b>20 Jan, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>18 Jan, 21-23 Jan</b>	<b>Sessional Exams</b>
<b>24 Jan, 2021</b> <b>26 Jan. 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week <b>25 Jan, 27-29 Jan</b>	Overview of diagrams in UML – Class diagram, Object diagram, Use-Case diagram, Sequence diagram, Collaboration diagram, Statechart diagram.
<b>31 Jan, 2021</b>	<b>Sunday</b>
<b>February, 2021</b> 1 <sup>st</sup> Week <b>01 Feb-06 Feb</b>	Activity diagram, Component diagram, Deployment diagram. UML Semantic Rules – Names, Scope, Visibility, Integrity, Execution.
<b>07 Feb, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>08 Feb-13 Feb</b>	Mechanisms in the UML – Specifications, Adornments, Common Divisions, Extensibility Mechanisms.
<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>15 Feb, 17-20 Feb</b>	Revision of Syllabus and Class Tests
<b>16 Feb, 2021</b> <b>21 Feb, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

## Lesson plan for the odd semester (October,2020 to February, 2021)

Name of the Teacher- Ms. Neha Sharma

Class-BCA 1<sup>st</sup> Sem

Subject- BCA-III,Computer & Programming Fundamentals

3 <sup>rd</sup> Week 17 -21 Nov	Computer Fundamentals: Definition, Block Diagram along with its components, characteristics
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov	classification of computers, Applications of computers in various fields. Memory: Concept of primary & secondary memory, RAM, ROM, types of ROM,
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 03-05 Dec	flash memory, Secondary storage devices: Sequential & direct access devices viz. magnetic tape, magnetic disk, CD, DVD
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 07 Dec-12 Dec	Computer hardware & software: I/O devices, relationship between hardware and software,
13 Dec, 2020	<b>Sunday</b>
3 <sup>rd</sup> Week 14 Dec-19 Dec	types of software, Operating system: Definition, functions of operating system, concept of multiprogramming, multitasking, multithreading, multiprocessing,
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21 -24&26 Dec	time-sharing, real time, single-user & multi-user operating system  Planning the Computer Program: Concept of problem solving, Problem definition, Program design,
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
January, 2021 1 <sup>st</sup> Week 28 Dec, 31 Dec, 2020-02 Jan, 2021	Types of errors in programming, Documentation, Techniques of Problem Solving: Flowcharting, algorithms, pseudo code, decision table, Structured programming concepts,
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 Jan-09 Jan	Programming methodologies viz. top-down and bottom-up programming. Computer Virus, WORMS, Trojan
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 11 Jan-16 Jan	Searching, Sorting, and Merging: Linear & Binary Searching,
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	<b>Sessional Exams</b>

**Name of the Teacher- Ms. Neha Sharma**

**Class-BCA 1<sup>st</sup> Sem**

**Subject- BCA-III,Computer & Programming Fundamentals**

<b>24 Jan, 2021</b>	<b>Sunday</b>
<b>26 Jan. 2021</b>	<b>Republic Day</b>
5 <sup>th</sup> Week <b>25 Jan, 28-29 Jan</b>	Bubble, Selection, and Insertion Sorting, Merging, Debugging,
<b>31 Jan, 2021</b>	<b>Sunday</b>
<b>February, 2021</b> 1 <sup>st</sup> Week <b>01 Feb-06 Feb</b>	Design of algorithms for searching, sorting and merging.
<b>07 Feb, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>08 Feb-13 Feb</b>	Computer Languages:. Analogy with natural language, machine language,
<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>15 Feb, 18-20 Feb</b>	assembly language, high-level language, language translators, characteristics of a good programming language.
<b>16 Feb, 2021</b>	<b>Vasant Panchmi</b>
<b>21 Feb, 2021</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

## Lesson plan for the odd semester (October,2020 to February, 2021)

Name of the Teacher- Ms. Neha Sharma

Class-BCA 3<sup>rd</sup> Sem

Subject- BCA-232 [Data Structure]

3 <sup>rd</sup> Week 16 Oct	Introduction: Elementary data organization, Data Structure definition Data type vs. data structure, Categories of data structures,
17 Oct, 2020 18 Oct, 2020	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 19 -24 Oct	Data structure operations ,Applications of data structures, Algorithmscomplexity and time-space tradeoff, Big-O notation
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 26 Oct, 28-30 Oct	Strings: Introduction, String strings, String operations, Pattern matching algorithms.
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 02 -07 Nov	Arrays: Introduction, Linear arrays, Representation of linear array in memory
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 09 Nov-13 Nov	Traversal, Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparce matrices
14 Nov, 2020 15 Nov, 2020	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17 -21 Nov	Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal,
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov	Insertion, Deletion, Searching in a linked list
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 03-05 Dec	Header linked list, Circular linked list, Two-way linked list, Garbagecollection,
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 07 Dec-12 Dec	Applications of linked lists. Algorithms for Insertion, deletionin array
13 Dec, 2020	<b>Sunday</b>
3rd Week 14 Dec-19 Dec	Stack: Introduction, Array and linked representation of stacks, Operations on stacks,
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21 -24&26 Dec	Applications of stacks: Polish notation, Recursion. Queues: Introduction, Array and linked representation of queues,
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
January, 2021 1 <sup>st</sup> Week 28 Dec, 31 Dec, 2020-02 Jan, 2021	Operations on queues, Dequees, Priority Queues, Applications of queues.

Name of the Teacher- Ms. Neha Sharma  
 Class-BCA 3<sup>rd</sup> Sem  
 Subject- BCA-232 [Data Structure]

<b>03 Jan, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>04 Jan-09 Jan</b>	Problems taken regarding first three units and tests
<b>10 Jan, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>11 Jan-16 Jan</b>	Tree: Introduction, Definition, Representing Binary tree in memory,
<b>17 Jan, 2021</b>	<b>Sunday</b>
<b>20 Jan, 2021</b>	<b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>18 Jan, 21-23 Jan</b>	<b>Sessional Exams</b>
<b>24 Jan, 2021</b>	<b>Sunday</b>
<b>26 Jan, 2021</b>	<b>Republic Day</b>
5 <sup>th</sup> Week <b>25 Jan, 28-29 Jan</b>	Traversing binary trees, Traversal algorithms using stacks and using recursion.
<b>31 Jan, 2021</b>	<b>Sunday</b>
<b>February, 2021</b> 1 <sup>st</sup> Week <b>01 Feb-06 Feb</b>	Graph: Introduction, Graph theory terminology, Sequential and linked representation of graphs.
<b>07 Feb, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>08 Feb-13 Feb</b>	Problems discussed on tree traversal
<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>15 Feb, 18-20 Feb</b>	Revision of Syllabus and Class Tests
<b>16 Feb, 2021</b>	<b>Vasant Panchmi</b>
<b>21 Feb, 2021</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

## Lesson plan for the odd semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Neha Sharma

Class-BCA 5<sup>th</sup> Sem

Subject- Computer Networks

3 <sup>rd</sup> Week 16 Oct	Introduction to Data Communication and Computer Networks
17 Oct, 2020 18 Oct, 2020	<b>Maharaja Aggrasen Jayanti Sunday</b>
4 <sup>th</sup> Week 19 -24 Oct	Uses of Computer Networks; Types of Computer Networks and their Topologies; Network Hardware Components: Connectors, Transceivers
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 26 Oct, 28-30 Oct	Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways; Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 02 -07 Nov	OSI Reference Model; Networking Models: Distributed Systems, Client/Server Model, Peer-to-Peer Model, Web-Based Model and Emerging File-Sharing Model
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 09 Nov-13 Nov	Analog and Digital data and signals; Bandwidth and Data Rate,
14 Nov, 2020 15 Nov, 2020	<b>Diwali Sunday</b>
3 <sup>rd</sup> Week 17 -21 Nov	Capacity, Baud Rate; Transmission Impairment; Data Rate Limits; Guided Transmission Media; Wireless Transmission
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov	Communication Satellites; Switching
29 Nov, 2020 30 Nov, 2020	<b>Sunday Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 03-05 Dec	Multiplexing; Modems and Modulation techniques; ADSL and Cable Modems
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 07 Dec-12 Dec	Data Link Layer Design issues; Error Detection and Correction;
13 Dec, 2020	<b>Sunday</b>
3rd Week 14 Dec-19 Dec	Sliding Window Protocols: One-bit, Go Back N and Selective Repeat; Media Access Control: ALOHA, Slotted ALOHA,
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21 -24&26 Dec	CSMA, Collision free protocols; Introduction to LAN technologies: Ethernet, Switched Ethernet, Fast Ethernet, Gigabit Ethernet; Token Ring;



Name of the Teacher- Ms. Neha Sharma

Class-BCA 5<sup>th</sup> Sem

Subject- Computer Networks

25 Dec, 2020 27 Dec, 2020	<b>Christmas Sunday</b>
January, 2021 1 <sup>st</sup> Week 28 Dec, 31 Dec, 2020-02 Jan, 2021	Introduction to Wireless LANs and Bluetooth; VLANs Routing Algorithms: Flooding,
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 Jan-09 Jan	Shortest Path Routing, Distance Vector Routing; Link State Routing, Hierarchical Routing;
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 11 Jan-16 Jan	Congestion Control; Traffic shaping; Choke packets;
17 Jan, 2021 20 Jan, 2021	<b>Sunday Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	Sessional Exams
24 Jan, 2021 26 Jan. 2021	<b>Sunday Republic Day</b>
5 <sup>th</sup> Week 25 Jan, 28-29 Jan	Load shedding; Elements of Transport Protocols;
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 Feb-06 Feb	Network Security Issues: Security attacks; Encryption methods;
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Feb-13 Feb	Digital Signature; Digital Certificate
14 Feb, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Feb, 18-20 Feb	Revision of Syllabus and Class Tests
16 Feb, 2021 21 Feb, 2021	<b>Vasant Panchmi Sunday</b>
4 <sup>th</sup> Week 22 Feb, 2021	Revision of Syllabus and Class Tests

## Lesson plan for the odd semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Neha Sharma

Class-B.Com 1<sup>st</sup> Sem

Subject- Introduction to Computer Applications

3 <sup>rd</sup> Week 16 Oct	Introduction to Computers: definition of computer; components of computer; characteristics of computers;
17 Oct, 2020 18 Oct, 2020	<b>Maharaja Aggrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 19 -24 Oct	History evolution of computers; input and output devices;
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 26 Oct, 28-30 Oct	memory and mass storage devices, introduction to modern CPU and processors .
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 02 -07 Nov	Computer Software – introduction; types of software - system, application and utility software;
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 09 Nov-13 Nov	Programming languages, , introduction to operating system, ,function of operating system.
14 Nov, 2020 15 Nov, 2020	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17 -21 Nov	types of operating systems , Realtime applications. Operating systems for Tabs, mobile phones, etc. – Android, etc
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 Nov-24Nov	Open source Software: Definitions and history, principles, success, methodologies.,
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 03-05 Dec	Introduction to Google Applications. Spreadsheets
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 07 Dec-12 Dec	Word Processors, Database Management software.
13 Dec, 2020	<b>Sunday</b>
3 <sup>rd</sup> Week 14 Dec-19 Dec	Networks basic, types of networks,
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21 -24&26 Dec	topologies, media ,
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
January, 2021 1 <sup>st</sup> Week 28 Dec, 31 Dec, 2020-02 Jan, 2021	hardware and software required for networking;

Name of the Teacher- Ms. Neha Sharma

Class-B.Com 1<sup>st</sup> Sem

Subject- Introduction to Computer Applications

<b>03 Jan, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>04 Jan-09 Jan</b>	Concept and evolution of internet; World Wide Web
<b>10 Jan, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>11 Jan-16 Jan</b>	Multimedia technologies; Video conferencing; Broadband networks.
<b>17 Jan, 2021</b>	<b>Sunday</b>
<b>20 Jan, 2021</b>	<b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>18 Jan, 21-23 Jan</b>	<b>Sessional Exams</b>
<b>24 Jan, 2021</b>	<b>Sunday</b>
<b>26 Jan, 2021</b>	<b>Republic Day</b>
5 <sup>th</sup> Week <b>25 Jan, 28-29 Jan</b>	Introduction to html, http, shttp, etc.
<b>31 Jan, 2021</b>	<b>Sunday</b>
<b>February, 2021</b> 1 <sup>st</sup> Week <b>01 Feb-06 Feb</b>	Internet Services – search engines, social networking, email, SMS, etc.
<b>07 Feb, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>08 Feb-13 Feb</b>	Revision of Syllabus and Class Tests
<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>15 Feb, 18-20 Feb</b>	Problems taken from students
<b>16 Feb, 2021</b>	<b>Vasant Panchmi</b>
<b>21 Feb, 2021</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

## Lesson plan for the odd semester (October,2020 to February, 2021)

Name of the Teacher- Ms. Neha Sharma

Class-M.Sc. 1<sup>st</sup> Sem

Subject- Discrete Mathematics Structures

January, 2021 1 <sup>st</sup> Week 01-02 Jan, 2021	Set Theory: Basic Set Theory, Operations on Sets,
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 Jan-09 Jan	Algebra of sets, Venn Diagrams.Relations: Binary Relations, Complement of relations, Inverse of relations, Composite relations, Properties,Equivalence,
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 11 Jan-16 Jan	Partial Order and Total order relations.Functions: Functions on Set, Domain, Co-domain, Representation of Functions, Types, Identity and InverseFunctions,
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	Composition of FunctionsPropositional Calculus: Propositional logic, Equivalences, Predicates , Quantifiers, Nested Quantifiers, Rules of Inference,
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 25 Jan, 28-29 Jan	Normal Forms, Proofs: Methods, Strategy. Counting: Counting Principles.
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 Feb-06 Feb	Counting Principles.Cont.,Pigeonhole Principle, Inclusion-Exclusion Principle, Permutations and Combinations, BinomialCoefficients
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 08 Feb-13 Feb	Advanced Counting Techniques: Recurrence Relations, Solving Recurrence Relations, Divide and Conquer Algorithms ,Recurrence Relations, Solution of Recurrence
14 Feb, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 15 Feb, 18-20 Feb	Relations by the method of Generating Function.. Lattices and Boolean algebra: Lattices, Hasse Diagram, Principle of Duality,
16 Feb, 2021 21 Feb, 2021	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week 22-27 Feb, 2021	Types of Lattices, Special Lattices, Boolean Expression, Equivalent circuits, Dual, Normal Forms
March,2021 1 <sup>st</sup> Week 01-06 March	Graphs: Introduction, Terminology, Types of Graphs, Representation of Graphs, Paths and Circuits, Cut-set and Cut - Vertices, Graph Isomorphism, Homomorphism, Connectivity,
2 <sup>nd</sup> Week 08 -10 March 12-13 March	Bipartite Graphs, Subgraphs, Operations on Graphs, Euler and Hamiltonian Graphs, Shortest Path Problem, Planar & Dual Graphs, Coloring. Tree: Tree Notations, Properties of tree, Types of Tree, Operations,

**Name of the Teacher- Ms. Neha Sharma**  
**Class-M.Sc. 1<sup>st</sup> Sem**  
**Subject- Discrete Mathematics Structures**

<b>11 March, 2021</b>	<b>Shivratri</b>
3 <sup>rd</sup> Week	Operations continued, Minimum Spanning Tree (MST).
<b>15-20 March</b>	Problems taken from students

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper- MS-15-34 Advanced Operating System

Class- M.Sc. II Computer Science (3<sup>rd</sup> Semester)

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Introduction to Distributed Systems
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 19-24, 2020</b>	Hard ware concepts, Software concepts, Design issues, Communication in Distributed Systems, Layered Protocols.
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-30, 2020</b>	ATM networks, The Client – Server model, Remote Procedure call, Group communication.
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-07, 2020</b>	Synchronization in Distributed System, Clock Synchronization, Mutual Exclusion.
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10,12-13, 2020</b>	Election algorithms, Atomic transactions, Deadlocks in Distributed Systems.
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 17-21, 2020</b>	Process and processors in Distributed System threads, System Models, Processors allocation.
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24, 26-28, 2020</b>	Scheduling in Distributed System, Fault tolerance, Real time Distributed System.
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 01-05, 2020</b>	Distributed File Systems, Distributed File System Design.
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-12, 2020</b>	Distributed File System implementation, Trends in Distributed File System.

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper- MS-15-34 Advanced Operating System

Class- M.Sc. II Computer Science (3<sup>rd</sup> Semester)

<b>December 13, 2020</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>December 14-19, 2020</b>	Distributed Shared Memory, Introduction, What is Shared memory?
<b>December 20, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>December 21-23 &amp; 26, 2020</b>	Consistency models, Page based Distributed Shared memory.
<b>December 25, 2020</b> <b>December 27, 2020</b>	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week <b>December 28-31, 2020</b>	Shared – variable Distributed Shared memory.
<b>January, 2021</b>	
1 <sup>st</sup> Week <b>January 01-02, 2021</b>	Object based Distributed Shared Memory.
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>January 04-09, 2021</b>	Basic Model of Real Time Systems, Characteristics.
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>January 11-16, 2021</b>	Applications of Real Time Systems, Real Time Task Scheduling.
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>January 18-19, 21-23, 2021</b>	<b>Sessional Exams</b>
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week <b>January 25, 28-30, 2021</b>	Handling Resource Sharing, Mobile Operating Systems
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week <b>01 February 01-06, 2021</b>	Micro Kernel Design, Client Server Resource Access.
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>February 08-13, 2021</b>	Processes and Threads, Memory Management
<b>February 14, 2021</b>	<b>Sunday</b>

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper- MS-15-34 Advanced Operating System

Class- M.Sc. II Computer Science (3<sup>rd</sup> Semester)

3 <sup>rd</sup> Week <b>February 15-20, 2021</b>	Revision of Syllabus and Class Tests
<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>February 22, 2021</b>	Revision of Syllabus and Class Tests



## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper- MS-15-12 Data Structures & Algorithms

Class- M.Sc. I Computer Science (1<sup>st</sup> Semester)

<b>January, 2021</b>	
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>January 04-06, 2021</b>	Introduction to Data Structures: Classification of Data Structures, Arrays, Stacks & Queues: Representation of Stacks, Stack Operations, Applications
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>January 11-13, 2021</b>	Queues, Operations on Queues, Circular Queues, Dequeue, Priority Queues, Applications.
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>January 18-19, 2021</b>	Linked Lists: Introduction, Types, Operations (Insertion, Deletion, Traversal, Searching, Sorting), Applications
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week <b>January 27, 2021</b>	Dynamic Memory Management, Implementation of Linked Representations.
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week <b>01 February 02-03, 2021</b>	Trees: Definition, Representation of Trees, Types of Tree, Representation of Binary Trees, Binary Tree Traversals, Threaded Binary Trees, Binary Search Trees and Operations, Minimum Spanning Tree, AVL Trees
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>February 08-10, 2021</b>	Heap, m-way Search Trees, B-Trees, B+ Trees, Applications, Advanced Trees: Introduction to 2-3 Tree, Red black Tree, Splay Trees.
<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>February 15 &amp; 17, 2021</b>	Graphs: Definitions and Basic Terminologies, Representation of Graphs,
<b>February 21, 2021</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>February 22-24, 2021</b>	Graph Traversals, Shortest Path Problem, Applications.
<b>February 28, 2021</b>	<b>Sunday</b>
<b>March, 2021</b>	
1 <sup>st</sup> Week <b>March 01-03, 2021</b>	Revision of Syllabus and Class Tests
<b>March 7, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>March 08-10, 2021</b>	Revision of Syllabus and Class Tests
<b>March 14, 2021</b>	<b>Sunday</b>
<b>March 15-17, 2021</b>	<b>Sessional Exams</b>

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper- BCA-235 Data Base Management System

Class- BCA II (3<sup>rd</sup> Semester)

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Basic Concepts – Data, Information, Records and files.
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 19-24, 2020</b>	Traditional file – based Systems-File Based Approach-Limitations of File Based Approach.
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-30, 2020</b>	Database Approach-Characteristics of Database Approach.
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-07, 2020</b>	Database Management System (DBMS)
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10, 12-13, 2020</b>	Components of DBMS Environment
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 17-21, 2020</b>	DBMS Functions and Components,
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24, 26-28, 2020</b>	Advantages and Disadvantages of DBMS.
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 01-05, 2020</b>	Roles in the Database Environment - Data and Database Administrator.
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-12, 2020</b>	Database Designers, Applications Developers and Users.
<b>December 13, 2020</b>	<b>Sunday</b>

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper- BCA-235 Data Base Management System

Class- BCA II (3<sup>rd</sup> Semester)

3 <sup>rd</sup> Week <b>December 14-19, 2020</b>	Database System Architecture – Three Levels of Architecture, External, Conceptual and Internal Levels
<b>December 20, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>December 21-23 &amp; 26, 2020</b>	Schemas, Mappings and Instances, Data Independence – Logical and Physical Data Independence
<b>December 25, 2020 December 27, 2020</b>	<b>Christmas Sunday</b>
5 <sup>th</sup> Week <b>December 28-31, 2020</b>	Classification of Database Management System, Client Server architecture to DBMS, Data Models: Records- based Data Models.
<b>January, 2021</b>	
1 <sup>st</sup> Week <b>January 01-02, 2021</b>	Object-based Data Models, Physical Data Models
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>January 04-09, 2021</b>	Conceptual Modeling, Entity-Relationship Model – Entity Types, Entity Sets, Attributes Relationship Types, Relationship Instances, ER Diagrams.
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>January 11-16, 2021</b>	Relational Data Model:-Brief History, Terminology in Relational Data Structure
<b>January 17, 2021 January 20, 2021</b>	<b>Sunday Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>January 18-19, 21- 23, 2021</b>	<b>Sessional Exams</b>
<b>January 24, 2021 January 26, 2021</b>	<b>Sunday Republic Day</b>
5 <sup>th</sup> Week <b>January 27-30, 2021</b>	Relations, Properties of Relations, Keys
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week <b>01 February 01-06, 2021</b>	Domains, Integrity Constraints over Relations
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>February 08-13, 2021</b>	Base Tables and Views, Basic Concepts of Hierarchical and Network Data Model.

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper- BCA-235 Data Base Management System

Class- BCA II (3<sup>rd</sup> Semester)

<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>February 15-20, 2021</b>	Revision of Syllabus and Class Tests
<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>February 22, 2021</b>	Revision of Syllabus and Class Tests

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij  
 Subject- Computers  
 Paper- BCA-353 Artificial Intelligence  
 Class- BCA III (5<sup>th</sup> Semester)

October, 2020	
3 <sup>rd</sup> Week October 16, 2020	Artificial Intelligence : Intelligence, AI Concepts
October 17, 2020 October 18, 2020	Maharaja Agrasen Jayanti Sunday
4 <sup>th</sup> Week October 19-24, 2020	Various definitions of AI, Knowledge, Knowledge Pyramid
October 25, 2020	Sunday (Dussehra)
5 <sup>th</sup> Week October 26-30, 2020	People and Computers: What computers can do better than people, what people can do better than computers
October 31, 2020	Maharishi Valmiki Jayanti
November, 2020	
November 01, 2020	Sunday (Haryana Day)
1 <sup>st</sup> Week November 02-07, 2020	Characteristics of AI Problems, Problem Representation in AI
November 08, 2020	Sunday
2 <sup>nd</sup> Week November 09-10, 12-13, 2020	Components of AI, AI Evolution
November 14, 2020 November 15, 2020	Diwali Sunday
3 <sup>rd</sup> Week November 17-21, 2020	Application Areas of AI, History of AI
November 22, 2020	Sunday
4 <sup>th</sup> Week November 23-24, 26-28, 2020	The Turing Test, The Revised Turing Test
November 29, 2020 November 30, 2020	Sunday Guru Nanak's Birthday
December, 2020	
1 <sup>st</sup> Week December 01-05, 2020	Expert System: Components of Expert System: Knowledge Base, Inference Engine, User Interface, Features of Expert System
December 06, 2020	Sunday
2 <sup>nd</sup> Week December 07-12, 2020	Expert System Life Cycle, Categories of Expert System
December 13, 2020	Sunday
3 <sup>rd</sup> Week December 14-19, 2020	Rule Based vs. Model Based Expert Systems, Advantages/Limitations of Expert System
December 20, 2020	Sunday
4 <sup>th</sup> Week December 21-23 & 26, 2020	Developing an Expert System: Identification, Conceptualization, Formalization, Implementation, Testing.

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij  
 Subject- Computers  
 Paper- BCA-353 Artificial Intelligence  
 Class- BCA III (5<sup>th</sup> Semester)

<b>December 25, 2020</b>	<b>Christmas</b>
<b>December 27, 2020</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>December 28-31, 2020</b>	Using an Expert System, Application Areas of Expert System
<b>January, 2021</b>	
<b>1<sup>st</sup> Week</b> <b>January 01-02, 2021</b>	AI and Search Process: Brute Force Search – Depth First/Breadth First Search
<b>January 03, 2021</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>January 04-09, 2021</b>	Heuristic Search: Hill Climbing, Constraint Satisfaction
<b>January 10, 2021</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>January 11-16, 2021</b>	Mean End Analysis, Best First Search, A* Algorithm, AO* Algorithm, Beam Search, Natural Language Processing: Introduction, Need, Goal.
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
<b>4<sup>th</sup> Week</b> <b>January 18-19, 21-23, 2021</b>	<b>Sessional Exams</b>
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
<b>5<sup>th</sup> Week</b> <b>January 27-30, 2021</b>	Fundamental Problems in Natural Language Understanding, How People overcome Natural Language Problems.
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
<b>1<sup>st</sup> Week</b> <b>01 February 01-06, 2021</b>	Speech Recognition: Introduction, Advantages and Approaches.
<b>February 07, 2021</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>February 08-13, 2021</b>	Introduction to Robotics: Parts of a Robot, Controlling a Robot, Intelligent Robots, Mobile Robots
<b>February 14, 2021</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>February 15-20, 2021</b>	Revision of Syllabus and Class Tests
<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>February 22, 2021</b>	Revision of Syllabus and Class Tests

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper-I Computer & Programming Fundamentals

Class- B.Sc. I & B.A. I Computer Science (1<sup>st</sup> Semester)

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 19-21, 2020</b>	Computer Fundamentals: Definition, Functional components of computer, characteristics.
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-28, 2020</b>	Classification of computers, Applications of computers in various fields.
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-04, 2020</b>	Memory: Concept of primary & secondary memory, RAM.
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10, 2020</b>	ROM, types of ROM, Cache memory
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 16-18, 2020</b>	CPU Registers, flash memory, CD, DVD.
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24, 2020</b>	Secondary storage devices: Sequential & direct access devices viz. magnetic tape, magnetic disk.
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 01-02, 2020</b>	Computer hardware & software: I/O devices.
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-09, 2020</b>	Definition of software, relationship between hardware and software, Types of software, motherboard, ports.
<b>December 13, 2020</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>December 14-16, 2020</b>	Overview of operating system: Definition, functions of operating system, Concept of multiprogramming, multitasking, multithreading and multiprocessing system.
<b>December 20, 2020</b>	<b>Sunday</b>

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper-I Computer & Programming Fundamentals

Class- B.Sc. I & B.A. I Computer Science (1<sup>st</sup> Semester)

4 <sup>th</sup> Week December 21-23, 2020	Time-sharing, real time, single-user & multi-user operating system, examples of various operating systems.
<b>December 25, 2020</b> <b>December 27, 2020</b>	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week December 28-30, 2020	Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging. Types of errors in programming, Documentation.
<b>January, 2021</b>	
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week January 04-06, 2021	Techniques of Problem Solving: Flowcharting, algorithms, pseudo code, Decision table, Structured programming concepts.
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week January 11-13, 2021	Programming methodologies viz. top-down and bottom-up programming.
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week January 18-19, 2021	<b>Sessional Exams</b>
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week January 25 & 27, 2021	Searching, Sorting, and Merging: Linear & Binary Searching.
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week 01 February 01-03, 2021	Bubble, Selection, and Insertion Sorting, Merging, Characteristics of a good programming language.
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week February 08-10, 2021	Computer Languages: Analogy with natural language, machine language, assembly language, high-level language, language translators.
<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week February 15 & 17, 2021	Revision of Syllabus and Class Tests
<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week February 22, 2021	Revision of Syllabus and Class Tests



## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper-II PC Software

Class- B.Sc. I & B.A. I Computer Science (1<sup>st</sup> Semester)

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Windows: Basics of Windows.
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 22-24, 2020</b>	Windows History, Basic components of windows.
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 29-30, 2020</b>	Icons, types of icons, taskbar.
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 05-07, 2020</b>	Activating windows, using desktop, title bar, running applications.
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 12-13, 2020</b>	Windows explorer, managing files and folders.
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 19-21, 2020</b>	Configuring System devices. Control panel , using windows accessories.
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 26-28, 2020</b>	Documentation Using Word - Introduction to Office Automation, Creating & Editing Document
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 03-05, 2020</b>	Formatting Document, Auto-text, Autocorrect, Spelling and Grammar Tool, Document Dictionary.
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 10-12, 2020</b>	Page Formatting, Bookmark, Advance Features of MS-Word-Mail Merge.
<b>December 13, 2020</b>	<b>Sunday</b>

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Divya Vij

Subject- Computers

Paper-II PC Software

Class- B.Sc. I & B.A. I Computer Science (1<sup>st</sup> Semester)

3 <sup>rd</sup> Week <b>December 17-19, 2020</b>	Macros, Tables, File Management, Printing, Styles, linking and embedding object.
<b>December 20, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>December 24 &amp; 26, 2020</b>	Electronic Spread Sheet using Excel - Introduction to MS-Excel, Creating & Editing Worksheet.
<b>December 25, 2020 December 27, 2020</b>	<b>Christmas Sunday</b>
5 <sup>th</sup> Week <b>December 31, 2020</b>	Formatting and Essential Operations, Formulas and Functions.
<b>January, 2021</b>	
1 <sup>st</sup> Week <b>January 01-02, 2021</b>	Charts, Advance features of MS-Excel-Pivot table & Pivot Chart, Linking and Consolidation.
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>January 07-09, 2021</b>	Database Management using Excel-Sorting, Filtering, Table, Validation, Goal Seek, Scenario.
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>January 14-16, 2021</b>	Presentation using PowerPoint: Presentations, Creating, Manipulating & Enhancing Slides
<b>January 17, 2021 January 20, 2021</b>	<b>Sunday Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>January 21-23, 2021</b>	<b>Sessional Exams</b>
<b>January 24, 2021 January 26, 2021</b>	<b>Sunday Republic Day</b>
5 <sup>th</sup> Week <b>January 28-30, 2021</b>	Organizational Charts, Excel Charts, Word Art, Layering art Objects, Animations and Sounds
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week <b>01 February 04-06, 2021</b>	Inserting Animated Pictures or Accessing through Object.
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>February 11-13, 2021</b>	Inserting Recorded Sound Effect or In-Built Sound Effect.
<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>February 18-20, 2021</b>	Revision of Syllabus and Class Tests
<b>February 16, 2021 February 21, 2021</b>	<b>Vasant Panchmi Sunday</b>
4 <sup>th</sup> Week <b>February 22, 2021</b>	Revision of Syllabus and Class Tests

## Lesson Plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject-Computers

Paper- I ( Web Designing Fundamentals)

Class- B.Sc. II CA

<b>October,2020</b>	
3 <sup>rd</sup> Week <b>19-21 Oct,2020</b>	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web Basic features; Web Browsers; Web Servers
<b>25 Oct, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>27 -28 Oct</b>	Hypertext Transfer Protocol; URLs; Searching and Web-Casting Techniques
<b>31 Oct, 2020</b> <b>01 Nov, 2020</b>	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
<b>November, 2020</b> 1 <sup>st</sup> Week <b>02 -04 Nov</b>	Search Engines and Search Tools, Web Publishing: Hosting your Site; Internet Service Provider;
<b>08 Nov, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>09 -11 Nov</b>	Planning and designing your Web Site;
<b>14 Nov, 2020</b> <b>15 Nov, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>17- 18 Nov</b>	Steps for developing your Site
<b>22 Nov, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>23 Nov-24 Nov</b>	Choosing the contents; Home Page; Domain Names
<b>29 Nov, 2020</b> <b>30 Nov, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>

## Lesson Plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject-Computers

Paper- I ( Web Designing Fundamentals)

Class- B.Sc. II CA

December, 2020 1 <sup>st</sup> Week 01-02 Dec	Creating a Website
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 07-08 Dec	The Markup Languages (HTML, DHTML)
13 Dec, 2020	<b>Sunday</b>
3 <sup>rd</sup> Week 14 -16 Dec	Web Development
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 21- 23	Introduction to HTML; Hypertext and HTML
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week 28-30 Dec	HTML Document Features, HTML command Tags
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 -06 Jan	Creating Links;
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 11 -13 Jan,	Headers; Text styles; Text Structuring; Text colors and Background
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	<b>Sessional Exams</b>
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 25,27 Jan	Formatting text; Page layouts, Images; Ordered and Unordered lists; Inserting Graphics;
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01-03 Feb	Table Creation and Layouts
07 Feb, 2021	<b>Sunday</b>

## Lesson Plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject-Computers

Paper- I ( Web Designing Fundamentals)

Class- B.Sc. II CA

2 <sup>nd</sup> Week <b>08 -10 Feb</b>	Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes.
<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>17 Feb,2021</b>	Revision of Syllabus and Class Tests
<b>16 Feb, 2021</b> <b>21 Feb, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject-Computers

Paper- II (DATABASE Management System)

Class- B.Sc. II CA

<b>October,2020</b>	.
3 <sup>rd</sup> Week <b>16 Oct</b>	Basic Concepts – Data, Information, Records and files Traditional file – based Systems-File Based Approach-Limitations of File Based Approach,
<b>17 Oct, 2020</b> <b>18 Oct, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 22-24 Oct	Database Approach-Characteristics of Database Approach,
<b>25 Oct, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>29-30 Oct</b>	Database ManagementSystem (DBMS), Components of DBMS Environment
<b>31 Oct, 2020</b> <b>01 Nov, 2020</b>	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
<b>November, 2020</b> 1 <sup>st</sup> Week <b>05-07 Nov</b>	DBMS Functions and Components, Advantages and Disadvantages of DBMS
<b>08 Nov, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>12-13 Nov</b>	Roles in the Database Environment - Data and Database Administrator, .
<b>14 Nov, 2020</b> <b>15 Nov, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>19 Nov</b>	Database Designers, Applications Developers and Users
<b>22 Nov, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>26-28 Nov</b>	Database System Architecture – Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas,
<b>29 Nov, 2020</b> <b>30 Nov, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b> 1 <sup>st</sup> Week <b>03-05 Dec</b>	Mappings and Instances, Data Independence – Logical and Physical Data Independence,
<b>06 Dec, 2020</b>	<b>Sunday</b>
2 <sup>d</sup> Week <b>10-12 Dec</b>	Classification of Database Management System, Centralized and Client Server architecture to DBMS.
<b>13 Dec, 2020</b>	<b>Sunday</b>

## Lesson Plan for the Odd semester (October,2020 to February, 2021)

Name of the Teacher-**Ms. Mamta Atreja**

Subject-**Computers**

Paper- **II (DATABASE Management System)**

Class- **B.Sc. II CA**

3rd Week 17-19 Dec	Data Models: Records- based Data Models, Object-based Data Models,
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 24&26 Dec	Physical Data Models and Conceptual Modeling
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week 31 Dec	Entity-Relationship Model
January, 2021 1 <sup>st</sup> Week 01- 02 Jan, 2021	Entity Types, Entity Sets, Attributes Relationship Types, Relationship Instances and ER Diagrams.
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 07-09 Jan	Relational Data Model:-Brief History, Terminology in Relational Data Structure
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 15-16 Jan	Relations, Properties of Relations, Keys, Domains, Integrity
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	Sessional Exams
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 28-30 Jan	Constraints over Relations,
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 Feb, 04-06 Feb	Base Tables and Views
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 11-13 Feb	Basic Concepts of Hierarchical and Network Data Model
14 Feb, 2021	<b>Sunday</b>

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper- II (DATABASE Management System)**

**Class- B.Sc. II CA**

<b>3<sup>rd</sup> Week 18-20 Feb</b>	Revision of Syllabus and Class Tests
<b>16 Feb, 2021 21 Feb, 2021</b>	<b>Vasant Panchmi Sunday</b>
<b>4<sup>th</sup> Week 22 Feb, 2021</b>	Revision of Syllabus and Class Tests



## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject-Computers

Paper- I BC(Voc)-305 (Data Structure)

Class- B.Com II CA

October,2020	.
3 <sup>rd</sup> Week 19-21 Oct	Data structure Definition , Operation on data Structure
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 27-28 Oct	Types of data Structure
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 02 Nov-04 Nov	String Manipulation
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 09 -10 Nov	Linear and least structures
14 Nov, 2020 15 Nov, 2020	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week 17- 18 Nov	Array definition, types of Array
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 23 -25 Nov	Address calculation
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 01-02 Dec	Stack: push/pop algorithms,
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 07 -08 Dec	Stack applications.
13 Dec, 2020	<b>Sunday</b>
3rd Week 14 -16 Dec	Queue: INS/DEL algorithm,
20 Dec, 2020	<b>Sunday</b>

## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject-Computers

Paper- I BC(Voc)-305 (Data Structure)

Class- B.Com II CA

4 <sup>th</sup> Week 21 -23 Dec	Double ended Queue
25 Dec, 2020 27 Dec, 2020	<b>Christmas Sunday</b>
5 <sup>th</sup> Week 28 Dec-30 Dec,2020	Circular queue
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 04 Jan -06 Jan	Single linked list,
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 11 -13 Jan	Algorithm and double linked list and concepts;
17 Jan, 2021 20 Jan, 2021	<b>Sunday Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	<b>Sessional Exams</b>
24 Jan, 2021 26 Jan. 2021	<b>Sunday Republic Day</b>
5 <sup>th</sup> Week 25 Jan &27 Jan	circular linked list
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 -03 Feb	B-Tree concept.
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 08 -10 Feb	Files: serial, sequential, indexed, direct, multi-list.
14 Feb, 2021	<b>Sunday</b>

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper- I BC(Voc)-305 (Data Structure)**

**Class- B.Com II CA**

<b>3<sup>rd</sup> Week</b> <b>17 Feb</b>	Revision of Syllabus and Class Tests
<b>16 Feb, 2021</b> <b>21 Feb, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject-Computers

Paper- II (BC (Voc)-306

(FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEM)

Class- B.Com II CA

October,2020	
3 <sup>rd</sup> Week 16 Oct	Overview of Data Management System: element of data-base system
17 Oct, 2020 18 Oct, 2020	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 22 -24 Oct	DBMS and its architecture
25 Oct, 2020	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 29-30 Oct	Advantages of DBMS
31 Oct, 2020 01 Nov, 2020	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
November, 2020 1 <sup>st</sup> Week 05-07 Nov	Types of database users
08 Nov, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 12 -13 Nov	Role of database administrator.
14 Nov, 2020 15 Nov, 2020	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week 19 Nov	Brief overview of hierarchical
22 Nov, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 26 -28 Nov	Network model
29 Nov, 2020 30 Nov, 2020	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020 1 <sup>st</sup> Week 03-05 Dec	Relational model (relations, properties of relational model, keys and integrity rules),
06 Dec, 2020	<b>Sunday</b>
2 <sup>nd</sup> Week 10-12 Dec	E-R diagrams.
13 Dec, 2020	<b>Sunday</b>

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper- II (BC (Voc)-306**

**(FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEM)**

**Class- B.Com II CA**

3rd Week 17-19 Dec	Normalization: concepts and update anomalies
20 Dec, 2020	<b>Sunday</b>
4 <sup>th</sup> Week 24 &26 Dec	functional and transitive dependencies normal forms (1NF, 2NF, 3NF).
25 Dec, 2020 27 Dec, 2020	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week 31 Dec,2020	BCNF
January, 2021 1 <sup>st</sup> Week 01-02 Jan, 2021	Database objects: terminologies- tables, views, materialized views, indexes; triggers; synonyms;
03 Jan, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 07 Jan -09 Jan	functions, procedures and packages; create operator, create directory, create library, database links.
10 Jan, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 15-16 Jan	SQL: methods to access SQL plan; DDL, describe command; DML, joining tables; break clause
17 Jan, 2021 20 Jan, 2021	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week 18 Jan, 21-23 Jan	<b>Sessional Exams</b>
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 28-30 Jan	Oracle service: terminology; architecture and background support processes
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 04 -06 Feb	Role of database administrator
07 Feb, 2021	<b>Sunday</b>

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper- II (BC (Voc)-306**

**(FUNDAMENTALS OF DATABASE MANAGEMENT SYSTEM)**

**Class- B.Com II CA**

2 <sup>nd</sup> Week <b>11 -13 Feb</b>	Applications of ORACLE in business.
<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>18-20 Feb</b>	Revision of Syllabus and Class Tests
<b>16 Feb, 2021</b> <b>21 Feb, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper-BCA-356 Multimedia Tools**

**Class- BCA III**

<b>October,2020</b>	.
<b>3<sup>rd</sup> Week 16 Oct</b>	Multimedia: Basic Concept, Definition, Components & Applications of Multimedia;
<b>17 Oct, 2020 18 Oct, 2020</b>	<b>Maharaja Agrasen Jayanti Sunday</b>
<b>4<sup>th</sup> Week 19 -24 Oct</b>	Hypermedia and Multimedia
<b>25 Oct, 2020</b>	<b>Sunday (Dussehra)</b>
<b>5<sup>th</sup> Week 27-30 Oct</b>	Multimedia Hardware and Software; Multimedia Software Tools;
<b>31 Oct, 2020 01 Nov, 2020</b>	<b>Maharishi Valmiki Jayanti Sunday (Haryana Day)</b>
<b>November, 2020 1<sup>st</sup>Week 02 Nov-07 Nov</b>	Presentation Tools,Multimedia Authoring: Introduction, Features,
<b>08 Nov, 2020</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week 09 -13 Nov</b>	Types of Authoring Tools: Card or Page-Based,
<b>14 Nov, 2020 15 Nov, 2020</b>	<b>Diwali Sunday</b>
<b>3<sup>rd</sup>Week 17- 19 Nov</b>	Icon-Based, Time-Based, Object-Oriented; VRML: History, Features
<b>22 Nov, 2020</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week 23 -28 Nov</b>	Images: Graphics/Image Data Types, File Formats; Color Models in Images and Video;
<b>29 Nov, 2020 30 Nov, 2020</b>	<b>Sunday Guru Nanak's Birthday</b>
<b>December, 2020 1<sup>st</sup> Week 01-05 Dec</b>	Video: Introduction, Types of Video Signals; Analog and Digital Video; Analog Video Standards:

**Lesson plan for the odd semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper-BCA-356 Multimedia Tools**

**Class- BCA III**

<b>06 Dec, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>07 -08 Dec, 10-12 Dec</b>	NTSC, PAL, SECA; Digital Video Standards: Chroma Subsampling, CCIR Standards, HDTV
<b>13 Dec, 2020</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>14 -19 Dec</b>	Digital Audio: Basic Concepts, Analog vs. Digital Audio, Digitization of Sound; Digital Audio File Formats, MIDI
<b>20 Dec, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>21 -24 Dec,26 Dec</b>	Quantization and Transmission of Audio: Coding of Audio; Pulse Code Modulation; Differential
<b>25 Dec, 2020</b> <b>27 Dec, 2020</b>	<b>Christmas</b> <b>Sunday</b>
<b>28 Dec,-31 Dec, 2020</b> <b>January, 2021</b> 1 <sup>st</sup> Week <b>01-02 Jan, 2021</b>	Coding of Audio; Lossless Predictive Coding; DPCM; DM; ADPCM
<b>03 Jan, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>04 Jan -09 Jan</b>	Compression Techniques: Introduction, Types of Data Compression, Run-Length Coding
<b>10 Jan, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>11 -13 Jan, 15-16 Jan</b>	Variable-Length Coding, Dictionary-Based Coding, Transform Coding
<b>17 Jan, 2021</b> <b>20 Jan, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>



**Lesson plan for the odd semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper-BCA-356 Multimedia Tools**

**Class- BCA III**

4 <sup>th</sup> Week 18 Jan, 21-23 Jan	Sessional Exams
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 25 Jan, 27-30 Jan	Image and Video Compression Techniques: JPEG Standard for Image
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 -06 Feb	Compression; JPEG Mode,
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 08 -13 Feb	Video Compression Techniques: H.261, H.263, MPEG
14 Feb, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 18-20 Feb	Revision of Syllabus and Class Tests
16 Feb, 2021 21 Feb, 2021	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week 22 Feb, 2021	Revision of Syllabus and Class Tests

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher- Ms. Mamta Atreja**

**Subject- Computers**

**Paper- MC 301 COMPUTER APPLICATIONS IN BUSINESS**

**Class- M.Com II (III-Semester)**

<b>October,2020</b>	.
<b>3<sup>rd</sup> Week 13-15 Oct</b>	Computer System: Meaning, scope
<b>17 Oct, 2020 18 Oct, 2020</b>	<b>Maharaja Agrasen Jayanti Sunday</b>
<b>4<sup>th</sup> Week 19 -24 Oct</b>	Types of Computer
<b>25 Oct, 2020</b>	<b>Sunday (Dussehra)</b>
<b>5<sup>th</sup> Week 28-30 Oct</b>	Basic computer organization :Central Processing Unit
<b>31 Oct, 2020 01 Nov, 2020</b>	<b>Maharishi Valmiki Jayanti Sunday (Haryana Day)</b>
<b>November, 2020 1<sup>st</sup>Week 05 Nov-07 Nov</b>	Input, Output Devices
<b>08 Nov, 2020</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week 09 -13 Nov</b>	storage devices
<b>14 Nov, 2020 15 Nov, 2020</b>	<b>Diwali Sunday</b>
<b>3<sup>rd</sup>Week 17- 20Nov</b>	Introduction to software; - System software
<b>22 Nov, 2020</b>	operating system,
<b>4<sup>th</sup> Week 23 ,25-28 Nov</b>	User interface and its types
<b>29 Nov, 2020 30 Nov, 2020</b>	<b>Sunday Guru Nanak's Birthday</b>

## Lesson plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Ms. Mamta Atreja

Subject- Computers

Paper- MC 301 COMPUTER APPLICATIONS IN BUSINESS

Class- M.Com II (III-Semester)

<b>December, 2020</b> 1 <sup>st</sup> Week <b>01-05 Dec</b>	Application software - word processing
<b>06 Dec, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>07 -08 Dec, 10-12 Dec</b>	Spreadsheets
<b>13 Dec, 2020</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>14 -19 Dec</b>	Introduction to databases
<b>20 Dec, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>21 -24 Dec,26 Dec</b>	Tables, queries, reports and form generation.
<b>25 Dec, 2020</b> <b>27 Dec, 2020</b>	<b>Christmas</b> <b>Sunday</b>
<b>28 Dec,-31 Dec, 2020</b> <b>January, 2021</b> 1 <sup>st</sup> Week <b>01-02 Jan, 2021</b>	Fuzzy Logic
<b>03 Jan, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>04 Jan -09 Jan</b>	Information Technology in Business: Concept of information technology
<b>10 Jan, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>11 -13 Jan, 15-16 Jan</b>	Local Area Network–media & topologies and Wide Area Networks; Electronic data processing;
<b>17 Jan, 2021</b> <b>20 Jan, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher- Ms. Mamta Atreja**

**Subject- Computers**

**Paper- MC 301 COMPUTER APPLICATIONS IN BUSINESS**

**Class- M.Com II (III-Semester)**

4 <sup>th</sup> Week 18 Jan, 21-23 Jan	Sessional Exams
24 Jan, 2021 26 Jan. 2021	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week 25 Jan, 27-29 Jan	Intranet and extranet,
31 Jan, 2021	<b>Sunday</b>
February, 2021 1 <sup>st</sup> Week 01 -06 Feb	concept and evolution; World Wide Web; Multimedia technologies; Video conferencing;
07 Feb, 2021	<b>Sunday</b>
2 <sup>nd</sup> Week 08 -13 Feb	Broadband networks; Planning and designing web pages .
14 Feb, 2021	<b>Sunday</b>
3 <sup>rd</sup> Week 17-20 Feb	Revision of Syllabus and Class Tests
16 Feb, 2021 21 Feb, 2021	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week 22,23 Feb, 2021	Revision of Syllabus and Class Tests

**Lesson plan for the odd semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject-Computers**

**Paper- BBA- 205 Fundamentals of DBMS and ORACLE**

**Class- BBA II (III-Semester)**

<b>October,2020</b>	.
2 <sup>nd</sup> Week 12-14 Oct	<b>Basic Concepts</b> – Traditional file oriented approach,
3 <sup>rd</sup> Week 19-21 Oct	Disadvantages of simple file system,
<b>25 Oct, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week 27-28 Oct	Database approach
<b>31 Oct, 2020</b> <b>01 Nov, 2020</b>	<b>Maharishi Valmiki Jayanti</b> <b>Sunday (Haryana Day)</b>
<b>November, 2020</b> 1 <sup>st</sup> Week <b>02 Nov-04 Nov</b>	Advantages of Database approach
<b>08 Nov, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>09 -11 Nov</b>	Database Management Systems(DBMS),
<b>14 Nov, 2020</b> <b>15 Nov, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>17- 18 Nov</b>	Components of DBMS Environment
<b>22 Nov, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>23 -25 Nov</b>	Advantages and Disadvantages of DBMS,
<b>29 Nov, 2020</b> <b>30 Nov, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b> 1 <sup>st</sup> Week <b>02-03 Dec</b>	DBMS Architecture, Data Independence, Data Models, Keys.
<b>06 Dec, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>07 -08 Dec</b>	<b>Computers:</b> An introduction, use of computer in business
<b>13 Dec, 2020</b>	<b>Sunday</b>

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject- Computers**

**Paper- BBA- 205 Fundamentals of DBMS and ORACLE**

**Class- BBA II (III-Semester)**

3rd Week <b>14 -16 Dec</b>	Advantages and disadvantages
<b>20 Dec, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>21 -23 Dec</b>	Computerized system for inventory control, payroll order, banking and accounting.
<b>25 Dec, 2020</b> <b>27 Dec, 2020</b>	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week <b>28 Dec-30</b> <b>Dec,2020</b>	<b>SQL using ORACLE:</b> Introduction to SQL, Components of SQL: DDL, DML & DCL
<b>03 Jan, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>04 Jan -06 Jan</b>	Data types in SQL, DDL Commands: Create, Alter, Drop, Truncate. Creating queries with DDL commands and implementing constraints.
<b>10 Jan, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>11 -13 Jan</b>	DML Commands: Insert, Delete, Update, Select, Select with Group by and Order by. Creating queries with DML commands.
<b>17 Jan, 2021</b> <b>20 Jan, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>18 Jan, 21-23</b> <b>Jan</b>	<b>Sessional Exams</b>
<b>24 Jan, 2021</b> <b>26 Jan. 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week <b>25 Jan</b>	Operators: Set and Logical
<b>31 Jan, 2021</b>	<b>Sunday</b>
<b>February, 2021</b> 1 <sup>st</sup> Week <b>01 -03 Feb</b>	SQL functions: Numeric functions, Scalar functions and Group functions
<b>07 Feb, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>08 -10 Feb</b>	<b>Report-Writing:</b> Commands, advantages of Report writing.

**Lesson plan for the Odd Semester (October,2020 to February, 2021)**

**Name of the Teacher-Ms. Mamta Atreja**

**Subject- Computers**

**Paper- BBA- 205 Fundamentals of DBMS and ORACLE**

**Class- BBA II (III-Semester)**

<b>14 Feb, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>17 Feb-18 Feb, 20 Feb</b>	Revision of Syllabus and Class Tests
<b>16 Feb, 2021 21 Feb, 2021</b>	<b>Vasant Panchmi Sunday</b>
4 <sup>th</sup> Week <b>22 Feb, 2021</b>	Revision of Syllabus and Class Tests

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

Paper- I (Fundamentals of Database Systems)

Class- B.Sc. III (Computer Science) & B.A. III (Computer Science)

October 2020	
<b>3<sup>rd</sup> Week</b>	
Date:- October 16, 2020	Basic Concepts – Data, Information, Records and files. Traditional file Based Approach - Limitations of Traditional File Based Approach
October 17, 2020	Maharaja Agrasen Jayanti
October 18, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- October 22,23,24, 2020	Database Approach-Characteristics of Database Approach, Database Management System (DBMS), Components of DBMS Environment, DBMS Functions and Components, Advantages and Disadvantages of DBMS
October 25, 2020	Sunday (Dussehra)
<b>5<sup>th</sup> Week</b>	
Date:- October 29-30, 2020	Revision and Tests of Unit I
October 31, 2020	Maharishi Valmiki Jayanti
<b>November 2020</b>	
<b>1<sup>st</sup> Week</b>	
November 01, 2020	Sunday (Haryana Day)
Date:- November 05, 06, 07, 2020	Actors on the Scene - Data and Database Administrator, Database Designers
November 08, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- November 12, 2020	End users, Applications Developers and Workers behind the Scene, Database System Architecture – Three Levels of Architecture
November 14, 2020	Diwali
November 15, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- November 19, 20, 21, 2020	Schemas – External, Conceptual and Internal Level, Database Languages – VDL, DDL, SDL, DML, SQL
November 22, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- November 26,27,28, 2020	Mappings – External/ Conceptual and Conceptual/Internal, Instances, Data Independence – Logical and Physical Data Independence
November 29, 2020	Sunday
November 30, 2020	Guru Nanak's Birthday



# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher-Ms. Prashantika P Sanduja

Subject- Computer Science

Paper- I (Fundamentals of Database Systems)

Class- B.Sc. III (Computer Science) & B.A. III (Computer Science)

December 2020	
<b>1<sup>st</sup> Week</b>	
Date:- December 03,04,05, 2020	Data Models: High Level, Low Level and Representational
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- December 17,18,19, 2020	Records- based Data Models, Object-based Data Models
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- December 24, 26, 2020	Physical Data Models and Conceptual Models, Entity-Relationship Model – Concepts, Entity Types, Entity Sets
December 25, 2020	Christmas Day
December 27, 2020	Sunday
<b>5<sup>th</sup> Week</b>	
Date:- December 31, 2020	Revision of Unit III
January 2021	
<b>1<sup>st</sup> Week</b>	
January 01-02, 2021	Attributes, Relationships
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- January 07,08,09, 2021	Constraints, Keys , Degree, Cardinality, ER Diagrams of any Database Organization- Inventory System
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- January 14,15,16, 2021	ER Diagrams of any Database Organization- Payroll System, Reservation System, Online Book Store etc.
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- January 21,22,23, 2021	ER Diagrams of any Database Organization – Railway Reservation System, Library Management System
January 20, 2021	Guru Gobind Singh Jayanti
January 24, 2021	Sunday
<b>5<sup>th</sup> Week</b>	
Date:- January 28, 29, 30, 2021	Classification of Database Management System, Centralized and Client Server Architecture
January 26, 2021	Republic Day
January 31, 2021	Sunday

## **Lesson plan for the Odd Semester (October, 2020 to February, 2021)**

**Name of the Teacher- Ms. Prashantika P Sanduja**

**Subject- Computer Science**

**Paper- I (Fundamentals of Database Systems)**

**Class- B.Sc. III (Computer Science) & B.A. III (Computer Science)**

<b>February 2021</b>	
<b>1<sup>st</sup> Week</b>	
Date:- February 05, 06, 2021	Relational Data Model:-Brief History, Terminology in Relational Data Structure, Relations, Properties of Relations
February 07, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- February 11,12,13, 2021	Keys – Primary, Secondary, Composite, Candidate, Alternate and Foreign Key, Domains, Integrity Constraints over Relations
February 14, 2021	Sunday

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

Paper- II (Web Designing)

Class- B.Sc. III (Computer Science) & B.A. III (Computer Science)

October 2020	
<b>3<sup>rd</sup> Week</b>	
October 17, 2020	Maharaja Agrasen Jayanti
October 18, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- October 20, 21, 2020	Introduction to Internet and World Wide Web, Evolution and History of World Wide Web, Basic Features, Web Browsers, Web Servers
October 25, 2020	Sunday (Dussehra)
<b>5<sup>th</sup> Week</b>	
Date:- October 26, 27, 28, 2020	Hypertext Transfer Protocol, URLs; Searching and Web-Casting Techniques; Search Engines and Search Tools
October 31, 2020	Maharishi Valmiki Jayanti
November 2020	
<b>1<sup>st</sup> Week</b>	
November 01, 2020	Sunday (Haryana Day)
Date:- November 02, 03, 2020	Steps for Developing Website, Choosing the Contents, Planning and Designing Web Site
November 08, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- November 09, 2020	Home Page, Domain Names, Internet Service Provider
November 14, 2020	Diwali
November 15, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- November 16, 17, 18, 2020	Creating a Website, Web Publishing, Hosting Site
November 22, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- November 25, 2020	Test of Unit II
November 29, 2020	Sunday
November 30, 2020	Guru Nanak's Birthday

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

Paper- II (Web Designing)

Class- B.Sc. III (Computer Science) & B.A. III (Computer Science)

December 2020	
<b>1<sup>st</sup> Week</b>	
Date:- December 01, 02, 2020	Introduction to HTML, Hypertext and HTML, HTML Document Features
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- December 07, 08, 09, 2020	HTML Tags, Header, Title, Body, Paragraph
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- December 14, 15, 16, 2020	Ordered/Unordered Line, Creating Links, Headers, Text Styles, Text Structuring
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- December 21, 22, 23, 2020	Text Colors and Background; Formatting Text
December 25, 2020	Christmas Day
December 27, 2020	Sunday
<b>5<sup>th</sup> Week</b>	
Date:- December 28, 29, 30, 2020	Revision of the above topics
January 2021	
<b>1<sup>st</sup> Week</b>	
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- January 04, 05, 06, 2021	Page layouts; Insertion of Text, Movement of Text
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- January 11, 12, 2021	Images: Types of Images, Insertion of Image, Movement of Image
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- January 18, 19, 2021	Ordered and Unordered lists, Inserting Graphics

January 20, 2021	Guru Gobind Singh Jayanti
<b>5<sup>th</sup> Week</b>	
Date:- January 25, 27, 2021	Table Handling Functions like Columns, Rows, Width, Colours
January 24, 2021	Sunday
January 26, 2021	Republic Day
January 31, 2021	Sunday

## **Lesson plan for the Odd Semester (October, 2020 to February, 2021)**

**Name of the Teacher- Ms. Prashantika P Sanduja**

**Subject- Computer Science**

**Paper- II (Web Designing)**

**Class- B.Sc. III (Computer Science) & B.A. III (Computer Science)**

<b>February 2021</b>	
<b>1<sup>st</sup> Week</b>	
Date:- February 01, 03, 2021	Frame Creation and Layouts; Working with Forms and Menus
<b>2<sup>nd</sup> Week</b>	
Date:- February 08, 09, 10, 2021	Working with Buttons like Radio, Check Box
February 07, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- February 15, 2021	Tests of the whole syllabus
February 14, 2021	Sunday
February 16, 2021	Vasant Panchami

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

BCA-114 (Logical Organization of Computers – I)

Class- BCA I

November 2020	
<b>3<sup>rd</sup> Week</b>	
Date:- November 16-21, 2020	Binary Arithmetic, Fixed-point and Floating point representation of numbers
<b>4<sup>th</sup> Week</b>	
November 22, 2020	Sunday
November 25-28, 2020	BCD Codes, Error detecting and correcting codes, Character Representation – ASCII, EBCDIC
<b>5<sup>th</sup> Week</b>	
November 29, 2020	Sunday
November 30, 2020	Guru Nanak Ji Jayanti
December 2020	
<b>1<sup>st</sup> Week</b>	
December 01-05, 2020	Binary Logic: Boolean Algebra, Boolean Theorems, Boolean Functions and Truth Tables
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- December 07,08,09, 2020	Canonical and Standard forms of Boolean functions, Simplification of Boolean Functions – Venn Diagram
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- December 14-19, 2020	Simplification of Boolean Functions – Karnaugh Maps
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- December 21-24, 2020	Digital Logic: Basic Gates – AND, OR, NOT
December 25, 2020	Christmas Day
<b>5<sup>th</sup> Week</b>	
December 26-31, 2020	Revision of Above Topics

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

BCA-114 (Logical Organization of Computers – I)

Class- BCA I

January 2021	
<b>1<sup>st</sup> Week</b>	
Date:- January 01-02, 2021	Universal Gates – NAND
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- January 04-09, 2021	Universal Gates – NOR, Other Gates – XOR, XNOR
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- January 11,12,14-16, 2021	Implementations of digital circuits
January 13, 2021	Lohri
<b>4<sup>th</sup> Week</b>	
Date:- January 17-19, 21-23, 2021	Combinational Logic – Characteristics, Design Procedures, Analysis Procedures
January 20, 2021	Guru Gobind Singh Jayanti
January 21, 2021	Sunday
<b>5<sup>th</sup> Week</b>	
Date:- January 25, 27-30, 2021	Revision of Unit III
January 26, 2021	Republic Day
January 31, 2021	Sunday
February 2021	
<b>1<sup>st</sup> Week</b>	
Date:- February 01, 03, 05, 06, 2021	Combinational Circuits: Half-Adder, Full-Adder
February 07, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- February 08-13, 2021	Half-Subtractor, Full-Subtractor, Encoders, Decoders
February 14, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- February 15-20, 2021	Multiplexers, Demultiplexers, Comparators, Code Converters
February 16, 2021	Vasant Panchami
February 21, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- February 22-27, 2021	Revision of whole Syllabus
February 28, 2021	Sunday

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

BCA-233 (Computer Architecture)

Class- BCA II

October 2020	
<b>3<sup>rd</sup> Week</b>	
Date:- October 16, 2020	Basic Computer Organisation and Design: Instruction Codes, Computer Registers
October 17, 2020	Maharaja Agrasen Jayanti
October 18, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- October 20-24, 2020	Computer Instructions, Timing and Control, Instruction Cycle, Memory reference instructions, Input-Output and Interrupt, Design of Basic Computer, Design of accumulator logic
October 25, 2020	Sunday (Dussehra)
<b>5<sup>th</sup> Week</b>	
Date:- October 26-30, 2020	Revision and Tests of Unit I
October 31, 2020	Maharishi Valmiki Jayanti
<b>November 2020</b>	
<b>1<sup>st</sup> Week</b>	
November 01, 2020	Sunday (Haryana Day)
Date:- November 02, 03, 05-07, 2020	Register Transfer and Microoperations: Register Transfer Language (RTL), Register Transfer, Bus and Memory Transfers
November 08, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- November 09, 12, 2020	Arithmetic Microoperations, Logic Microoperations, Shift Microoperations, Arithmetic Logic Shift Unit
November 14, 2020	Diwali
November 15, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- November 16-21, 2020	Microprogrammed Control: Control memory; Address Sequencing, Microprogram Sequencer, Design of Control Unit
November 22, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- November 25-28, 2020	Revision and Tests of Unit II
November 29, 2020	Sunday
November 30, 2020	Guru Nanak's Birthday



# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

BCA-233 (Computer Architecture)

Class- BCA II

December 2020	
<b>1<sup>st</sup> Week</b>	
Date:- December 01-05, 2020	Central Processing Unit: General registers Organization, Instruction Formats
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- December 07-09, 2020	Stack Organization, Addressing Modes
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- December 14-19, 2020	Data Transfer and Manipulation, Program Control
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- December 21-24, 26, 2020	Program Interrupt, RISC, CISC
December 25, 2020	Christmas Day
December 27, 2020	Sunday
<b>5<sup>th</sup> Week</b>	
Date:- December 28-31, 2020	Revision of Unit III
<b>January 2021</b>	
<b>1<sup>st</sup> Week</b>	
January 01-02, 2021	Memory Organization: Memory hierarchy, Auxiliary Memory
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- January 04-09, 2021	Associative Memory, Interleaved memory
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- January 11,12, 14-16, 2021	Cache memory, Virtual Memory, Memory Management Hardware
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- January 18, 19, 21-23, 2021	Sessional Examinations
January 20, 2021	Guru Gobind Singh Jayanti
January 24, 2021	Sunday
<b>5<sup>th</sup> Week</b>	
Date:- January 25, 27-30, 2021	Input Output Organization : Peripheral devices
January 26, 2021	Republic Day
January 31, 2021	Sunday

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

BCA-233 (Computer Architecture)

Class- BCA II

February 2021	
<b>1<sup>st</sup> Week</b>	
Date:- February 01, 03, 05, 06, 2021	Input-Output Interface, Asynchronous Data Transfer, Modes of Transfer
February 07, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- February 08-13, 2021	Priority Interrupt, Direct Memory Access(DMA), Input-Output Processor (IOP)
February 14, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- February 15, 2021	Sessional
February 16, 2021	Vasant Panchami
February 17, 18, 20, 22, 2021	Revision of the whole Syllabus

# Lesson plan for the Odd Semester (January 2021 to March, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

MS-15-11 (Web Engineering)

Class- M.Sc. CS I Year

January 2021	
<b>1<sup>st</sup> Week</b>	
Date:- January 01-02, 2021	Introduction to Web Engineering: Categories and Characteristics of Web Applications
<b>2<sup>nd</sup> Week</b>	
January 03, 2021	Sunday
Date:- January 04-09, 2021	Web Applications Vs Conventional Software, Need for an Engineering Approach, Web Essentials: The Internet, Basic Internet Protocols, WWW, HTTP (Structure of Request and Response Messages)
<b>3<sup>rd</sup> Week</b>	
January 10, 2021	Sunday
January 11,12,14-16, 2021	Web Browser and its functions, URL, Web Servers and their features Defining Virtual Hosts, Secure Servers
<b>4<sup>th</sup> Week</b>	
January 17, 2021	Sunday
January 18, 19, 21-23, 2021	MarkUp Languages: Introduction to HTML, Characteristics, XHTML Syntax and Semantics
January 20, 2021	Guru Gobind Singh Jayanti
<b>5<sup>th</sup> Week</b>	
January 24, 2021	Sunday
January 26, 2021	Republic Day
Date:- January 25, 27-30, 2021	Fundamental HTML Elements, Lists, Tables, Frames, Forms, XHTML Abstract Syntax, Creating HTML Pages
January 31, 2021	Sunday
February 2021	
<b>1<sup>st</sup> Week</b>	
Date:- February 01, 03, 05, 06, 2021	Cascading Style Sheets: Features, Core Syntax, Types, Style Sheets and HTML, Style Rule Cascading and Inheritance, Text Properties
<b>2<sup>nd</sup> Week</b>	
February 07, 2021	Sunday
Date:- 08-13, 2021	CSS Box Model, Normal Flow Box Layout, Positioning and other useful Style Properties
<b>3<sup>rd</sup> Week</b>	
February 14, 2021	Sunday
Date:- February 15-18, 20, 2021	Client-Side Programming: Introduction to JavaScript, Perspective, Basic Syntax, Variables and Data types
<b>4<sup>th</sup> Week</b>	
February 21, 2021	Sunday

# Lesson plan for the Odd Semester (January 2021 to March, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

MS-15-11 (Web Engineering)

Class- M.Sc. CS I Year

Date:- February 22-27, 2021	JavaScript Statements, Operators, Literals, Functions, Objects, Arrays, Built-in Objects, Debuggers, Server-Side Programming: Servlet Architecture, Generating Dynamic Content, Servlet Life Cycle
February 28, 2021	Sunday
<b>March 2021</b>	
<b>1<sup>st</sup> Week</b>	
Date:- March 01-06, 2021	Sessions, Cookies, URL Rewriting, Servlet Capabilities, Servlets and Concurrency, XML: Relation between XML, HTML, SGML, Goals of XML, Structure and Syntax of XML, Well Formed XML
<b>2<sup>nd</sup> Week</b>	
March 07, 2021	Sunday
March 08, 2021	Maharishi Dayanand Saraswati Jayanti
March 11, 2021	Mahashivratri
Date:- March 09,10,12,13, 2021	DTD and its Structure, Namespaces and Data Typing in XML, XPATH, Template based Transformations
<b>3<sup>rd</sup> Week</b>	
March 14, 2021	Sunday
Date:- March 15-20, 2021	Linking with XML, Displaying XML documents in Browsers
March 21, 2021	Sunday

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

MS-15-33 (Computer Networks)

Class- M.Sc. CS II Year

October 2020	
<b>3<sup>rd</sup> Week</b>	
Date:- October 16, 2020	Introduction to Computer Networks and its uses; Network categorization and Hardware
October 17, 2020	Maharaja Agrasen Jayanti
October 18, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- October 20-24, 2020	Topologies, Network Software: Protocols, Services, Network Architecture, Design issues for the layers, OSI Reference model, TCP/IP Reference model, Comparison of OSI and TCP/IP Models
October 25, 2020	Sunday (Dussehra)
<b>5<sup>th</sup> Week</b>	
Date:- October 26-30, 2020	Introduction to Example Networks: Internet, ISDN, X.25, Frame Relay, ATM, Data Communication Model, Digital and Analog data and signals, Asynchronous and Synchronous transmission
October 31, 2020	Maharishi Valmiki Jayanti
<b>November 2020</b>	
<b>1<sup>st</sup> Week</b>	
November 01, 2020	Sunday (Haryana Day)
Date:- November 02, 03, 05-07, 2020	Bit rate, Baud Rate, Bandwidth, Transmission Impairment, Channel Capacity, Guided Transmission Media, Wireless Transmission
November 08, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- November 09, 12, 2020	Satellite Communication, Multiplexing, Switching, Local Loop
November 14, 2020	Diwali
November 15, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- November 16-21, 2020	Modems and ADSL, Internet over Cable; ADSL Versus Cable, Encoding: NRZ, NRZ-I, Manchester and Differential Manchester Encoding
November 22, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- November 25-28, 2020	The Mobile Telephone System, Data Link Layer Design issues; Framing, Error Detection and Correction
November 29, 2020	Sunday
November 30, 2020	Guru Nanak's Birthday

## Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

MS-15-33 (Computer Networks)

Class- M.Sc. CS II Year

<b>December 2020</b>	
<b>1<sup>st</sup> Week</b>	
Date:- December 01-05, 2020	Medium Access Control: Aloha, CSMA protocols, Collision free protocols, Binary Exponential Backoff Algorithm
December 06, 2020	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- December 07-09, 2020	Flow Control: Sliding Window Protocols, Limited Contention Protocols
December 13, 2020	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- December 14-19, 2020	Wavelength Division Multiple Access Protocol, High Speed LANs, Ethernet LAN, Fast Ethernet, Gigabit Ethernet, Introduction to Wireless LANs
December 20, 2020	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- December 21-24, 26, 2020	Spread Spectrum, Wireless LAN Protocol: MACA, Token Ring and FDDI
December 25, 2020	Christmas Day
December 27, 2020	Sunday
<b>5<sup>th</sup> Week</b>	
Date:- December 28-31, 2020	Revision of Unit III
<b>January 2021</b>	
<b>1<sup>st</sup> Week</b>	
January 01-02, 2021	Network Layer Design issues , Virtual Circuit and Datagram Subnet, Routing Algorithms, Optimality Principle
January 03, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- January 04-09, 2021	Shortest path Routing, Flooding, Hierarchical Routing, Distance Vector Routing, Link State Routing, Broadcast and Multi Cast Routing, Routing for Mobile hosts
January 10, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- January 11,12, 14-16, 2021	Congestion Control Algorithms: General Principals; Congestion control in Virtual – Circuit Subnets; Congestion Control in Datagram Subnets
January 17, 2021	Sunday
<b>4<sup>th</sup> Week</b>	
Date:- January 18, 19, 21-23, 2021	Traffic Shaping, Token Bucket, Leaky Bucket, Choke packets, Load Shedding
January 20, 2021	Guru Gobind Singh Jayanti
January 24, 2021	Sunday

# Lesson plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Prashantika P Sanduja

Subject- Computer Science

MS-15-33 (Computer Networks)

Class- M.Sc. CS II Year

<b>5<sup>th</sup> Week</b>	
Date:- January 25, 27-30, 2021	Revision of Unit IV Topics
January 26, 2021	Republic Day
January 31, 2021	Sunday
<b>February 2021</b>	
<b>1<sup>st</sup> Week</b>	
Date:- February 01, 03, 05, 06, 2021	Random Early Detection, Jitter Control; Quality of Service: Over provisioning
February 07, 2021	Sunday
<b>2<sup>nd</sup> Week</b>	
Date:- February 08-13, 2021	Buffering, Resource Reservation, Admission Control, Packet Scheduling
February 14, 2021	Sunday
<b>3<sup>rd</sup> Week</b>	
Date:- February 15, 2021	Sessional
February 16, 2021	Vasant Panchami
February 17, 18, 20, 2021	Revision of the Syllabus

## Lesson Plan for the Odd Semester (October,2020 to February, 2021)

Name of the Teacher-Tarjeet Kaur

Subject- Computers

Paper- MS-15-32 Advanced Database System

Class- M.Sc. II Computer Science

October, 2020	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Introduction to Database Systems
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja AgrasenJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 19-24, 2020</b>	Three- Schema Architecture and Data Independence
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-30, 2020</b>	ER Model Concepts, Naming Convention and Design Issues
<b>October 31, 2020</b>	<b>Maharishi ValmikiJayanti</b>
November, 2020	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-07, 2020</b>	Extended ER Model, Subclasses,Superclasses, Inheritance
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10,12-13, 2020</b>	Specialization and Generalization, Constraints on Specialization and Generalization
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 17-21, 2020</b>	Introduction to RDBMS, Relational Database system constraints
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24,26-28, 2020</b>	Introduction to object-oriented concepts, Object identity object structure
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020	
1 <sup>st</sup> Week <b>December 01-05, 2020</b>	Type constructors, Encapsulation of operations, Methods and Persistence
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-12, 2020</b>	Type Hierarchies and Inheritance, Complex Object.
<b>December 13, 2020</b>	<b>Sunday</b>



## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher-TarjeetKaur

Subject- Computers

Paper- MS-15-32 Advanced Database System

Class- M.Sc. II Computer Science

3rd Week December 14-19, 2020	Steps to Query Processing and Optimization , Using Heuristics in Query Optimization
<b>December 20, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week December 21-23& 26, 2020	Database Tuning in Relational System
<b>December 25, 2020</b> <b>December 27, 2020</b>	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week December 28-31, 2020	Architecture for parallel database, Distributed database concepts, Data fragmentation, Replication, and allocation techniques.
<b>January, 2021</b>	
1 <sup>st</sup> Week January 01-02, 2021	Overview of Client-Server Architecture, Active Database Concept
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week January 04-09, 2021	Triggers, Temporal Databases Concepts
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week January 12-16, 2021	Spatial and Multimedia Databases, Deductive Databases
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week January 18-19, 21- 23, 2021	Sessional Exams
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week January 25, 27-30, 2021	XML Schema, Documents and Databases
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week 01 February 01-06, 2021	Introduction of Big Data, Classifications, The Simplest of Ontologies,
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week February 08-13, 2021	Ontologies, Classes with Multiple Parents, Choosing a Class Model. Data Integration and Software Interoperability Versioning and Compliance Issues
<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week February 15-20,2021	Stepwise Approach to Big Data Analysis, Failures and Legalities.

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher-TarjeetKaur

Subject- Computers

Paper- MS-15-32 Advanced Database System

Class- M.Sc. II Computer Science

<b>February 16, 2021</b>	<b>VasantPanchmi</b>
<b>February 21, 2021</b>	<b>Sunday</b>
4 <sup>th</sup> Week	
<b>February 22, 2021</b>	Revision of Syllabus and Class Tests

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- BCA-351: Web Designing Fundamentals

Class- BCA III

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Introduction to Internet
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 19-24, 2020</b>	History, Applications of Internet, Advantages and Disadvantages World Wide Web; Evolution and History of World Wide Web
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-30, 2020</b>	Web Browsers, Types of web Browsers, Basic Features, Web Servers and its Working
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-07, 2020</b>	Hypertext Transfer Protocol, URLs, Searching and Web-Casting Techniques, Search Engines and Search Tools
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10, 12-13, 2020</b>	Discuss Various Services of Internet, Revision and test of Unit-I
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 17-21, 2020</b>	Introduction to website Development. Steps for Developing Website; Choosing the Contents; Home Page; Domain Names; Internet Service Provider.
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24, 26-28, 2020</b>	Web Site Planning, Website Designing Process; Phases of Website Development
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 01-05, 2020</b>	Web Publishing Tools, Hosting Website Revision of Unit 2 and test
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-12, 2020</b>	Introduction to HTML, History, Basic Structure of HTML document, HTML Features
<b>December 13, 2020</b>	<b>Sunday</b>

Name of the Teacher- Ms. Tarjeet Kaur  
 Subject- Computers  
 Paper- BCA-351: Web Designing Fundamentals  
 Class- BCA III

3rd Week December 14-19, 2020	Steps to Create HTML Document ,HTML Tags: Header, Title, Body, Paragraph.
<b>December 20, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week December 21-23 & 26, 2020	TextStyles, Text Structuring using html tags, Text Colors
<b>December 25, 2020</b> <b>December 27, 2020</b>	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week December 28-31, 2020	Background; Formatting Text; Page layouts; Insertion ofText,Movement of Text
<b>January, 2021</b>	
1 <sup>st</sup> Week January 01-02, 2021	Creating Hyperlinks. Practice of some Programmes using html basic tags
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week January 04-09, 2021	Images: Types of Images, Insertion of Image, Movement of Image
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week January 12-16, 2021	Creating Ordered and Unordered lists,Inserting Graphics
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week January 18-19, 21- 23, 2021	HTML Table, Using Functions like Columns, Rows, Width, Colours
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week January 25, 27-30, 2021	Frame Creationand Layouts
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week 01 February 01-06, 2021	Practice of Developing Web Page
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week February 08-13, 2021	Working withForms and Menus; Working with Buttons like Radio, CheckBox;
<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week February 15-20, 2021	Group Discussion and Revision

**Name of the Teacher- Ms. Tarjeet Kaur**  
**Subject- Computers**  
**Paper- BCA-351: Web Designing Fundamentals**  
**Class- BCA III**

<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>VasantPanchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>February 22, 2021</b>	Revision of Syllabus and Class Tests

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper-I: Data Structure

Class- B.Sc. II & B.A. II Computer Science

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 19-21, 2020</b>	Introduction: Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-28, 2020</b>	Data structure operations, Applications of data structures, Algorithms complexity and time-space tradeoff, Big-O notation.
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-04, 2020</b>	Strings: Introduction, strings, String operations, Pattern matching algorithms.
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10, 2020</b>	Arrays: Introduction, Linear arrays, Representation of linear array in memory, Traversal
<b>November 14, 2020</b>	<b>Diwali</b>
<b>November 15, 2020</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>November 16-18, 2020</b>	Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix.
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24, 2020</b>	Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal, Insertion, Deletion, Searching in a linked list,
<b>November 29, 2020</b>	<b>Sunday</b>
<b>November 30, 2020</b>	<b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 01-02, 2020</b>	Header linked list, Circular linked list, Two-way linked list, Garbage collection,
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-09, 2020</b>	Applications of linked lists. Algorithm of insertion/ deletion in SLL
<b>December 13, 2020</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>December 14-16, 2020</b>	Stack: primitive operation on stack, Representation of Stack as Linked List and array,
<b>December 20, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>December 21-23, 2020</b>	Algorithms for push and pop. Stacks applications : polish notation, recursion.

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher-**Ms. Tarjeet Kaur**

Subject- **Computers**

Paper-I:**Data Structure**

Class- **B.Sc. II & B.A. II Computer Science**

<b>December 25, 2020</b>	<b>Christmas</b>
<b>December 27, 2020</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>December 28-30,</b> <b>2020</b>	Introduction to queues, Primitive Operations on the Queues, Circular queue, Priority queue, Representation of Queues as Linked List and array,
<b>January, 2021</b>	
<b>January 03, 2021</b>	<b>Sunday</b>
<b>2<sup>nd</sup>Week</b> <b>January 04-06, 2021</b>	Applications of queue. Algorithm on insertion and deletion in simple queue and circular queue.
<b>January 10, 2021</b>	<b>Sunday</b>
<b>3<sup>rd</sup>Week</b> <b>January 11-13, 2021</b>	Revision and test
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
<b>4<sup>th</sup>Week</b> <b>January 18-19, 2021</b>	<b>Sessional Exams</b>
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
<b>5<sup>th</sup> Week</b> <b>January 25&amp;27,</b> <b>2021</b>	Trees - Basic Terminology, representation, Binary Trees, Tree Representations using Array & Linked List.
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
<b>1<sup>st</sup> Week</b> <b>01 February 01-03,</b> <b>2021</b>	Basic operation on Binary tree, Traversal of binary trees:-In order, Preorder& post order.
<b>February 07, 2021</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>February 08-10,</b> <b>2021</b>	Applications of Binary tree. Algorithm of tree traversal with and without recursion.
<b>February 14, 2021</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>February 15 &amp; 17,</b> <b>2021</b>	Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of graphs.
<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>VasantPanchmi</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>February 22, 2021</b>	Group Discussion and Revision

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper-II: SOFTWARE ENGINEERING

Class- B.Sc. II & B.A. II Computer Science

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Introduction: Program vs. Software, Software Engineering, Programming paradigms, Software Crisis – problem and causes
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 22-24, 2020</b>	Phases in Software development: Requirement Analysis, Software Design, Coding, Testing, Maintenance,
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 29-30, 2020</b>	Software Development Process Models: Waterfall, Prototype.
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 05-07, 2020</b>	Evolutionary and Spiral models, Role of Metrics
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 12-13, 2020</b>	Feasibility Study, Software Requirement Analysis and Specifications: SRS, Need for SRS.
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 19-21, 2020</b>	Characteristics of an SRS, Components of an SRS, Problem Analysis, Information gathering tools,
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 26-28, 2020</b>	Organising and structuring information, Requirement specification, validation and metrics.
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 03-05, 2020</b>	Revision and Test
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 10-12, 2020</b>	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary, Decision table, Decision trees, Structured English, Entity-Relationship diagrams .
<b>December 13, 2020</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>December 17-19, 2020</b>	Software Project Planning: Cost estimation: COCOMO model, Project scheduling, Staffing and personnel planning, team structure.



## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper-II: Software Engineering

Class- B.Sc. II & B.A. II Computer Science

<b>December 20, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>December 24 &amp; 26, 2020</b>	Software configuration management, Quality assurance plans
<b>December 25, 2020</b> <b>December 27, 2020</b>	<b>Christmas</b> <b>Sunday</b>
5 <sup>th</sup> Week <b>December 31, 2020</b>	Project monitoring plans, Risk Management.
<b>January, 2021</b>	
1 <sup>st</sup> Week <b>January 01-02, 2021</b>	
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>January 07-09, 2021</b>	Revision and Test
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>January 14-16, 2021</b>	Software testing strategies: unit testing, integration testing, V and V
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>January 21-23, 2021</b>	System testing, Alpha and Beta testing. Black box, white box testing.
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week <b>January 28-30, 2021</b>	Cyclomatic Complexity. Software Implementation
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week <b>01 February 04-06, 2021</b>	Maintenance: Type of maintenance, Management of Maintenance
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>February 11-13, 2021</b>	Maintenance Process, maintenance characteristics.
<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>February 18-20, 2021</b>	Revision of Syllabus and Class Tests
<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>Vasant Panchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>February 22, 2021</b>	Revision of Syllabus and Class Tests

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- BBA-106: Computer Fundamentals

Class- BBA I

October, 2020	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Introduction to Computer: Introduction, Components, Types; Brief history of computers
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 19-24, 2020</b>	Generations of computer; Computer Memory, Software and Hardware;
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-30, 2020</b>	Operating Systems An Overview, Types, function; Language: - Low level, Assembly Level, High Level Language;
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
November, 2020	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-07, 2020</b>	Language Processor: - Assembler, Compilers and Interpreters; Network:-LAN, WAN, MAN.
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10,12-13, 2020</b>	Number Systems
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 17-21, 2020</b>	CUI vs GUI. Window-features, types. Introduction to Internet: Internet basic, benefit and limitation
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24,26-28, 2020</b>	Applications of Internet, IP address, Browser, WWW, E-mail, video conferencing.
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
December, 2020	
1 <sup>st</sup> Week <b>December 01-05, 2020</b>	Revision and Test
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-12, 2020</b>	Introduction to MS-Office- MS-Word: Starting Word, new documents, entering text, changing text, aligning, underlining, and justifying text.
<b>December 13, 2020</b>	<b>Sunday</b>

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- BBA-106: Computer Fundamentals

Class- BBA I

5 <sup>th</sup> Week December 28-31, 2020	Tables – creation, adding rows and columns, splitting, and combining cells, Borders. Saving, closing, and operating documents. Adding headers and footers.
<b>January, 2021</b>	
1 <sup>st</sup> Week January 01-02, 2021	Practice of designing Resume, Invitation Card etc
January 03, 2021	Sunday
2 <sup>nd</sup> Week January 04-09, 2021	Power Point (Presentation software): Basic concept of presentation software, Creating and opening a presentation
January 10, 2021	Sunday
3 <sup>rd</sup> Week January 11-16, 2021	Standard toolbar, formatting toolbar, and drawing toolbars in PowerPoint and their use.
January 17, 2021 January 20, 2021	Sunday Guru Gobind Singh's Birthday
4 <sup>th</sup> Week January 18-19, 21-23, 2021	Sessional Exams
January 24, 2021 January 26, 2021	Sunday Republic Day
5 <sup>th</sup> Week January 25, 28-30, 2021	Use of slide sorter, adding header/footer. Use of animation features. Inserting pictures, resizing pictures.
January 31, 2021	Sunday
<b>February, 2021</b>	
1 <sup>st</sup> Week 01 February 01-06, 2021	Inserting organization chart. Use of auto content wizard.
February 07, 2021	Sunday
2 <sup>nd</sup> Week February 08-13, 2021	Practice of designing Power Point Presentation
February 14, 2021	Sunday
3 <sup>rd</sup> Week February 15-20, 2021	Introduction to Ms-Excel: working with spreadsheet
February 16, 2021 February 21, 2021	VasantPanchmi Sunday
4 <sup>th</sup> Week February 22, 2021	Basic commands and Functions.

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- BBA-106: Computer Fundamentals

Class- BBA I

<b>October, 2020</b>	
3 <sup>rd</sup> Week <b>October 16, 2020</b>	Overview of e-commerce:- Definition, benefits of e-commerce, role of internet in e-commerce.
<b>October 17, 2020</b> <b>October 18, 2020</b>	<b>Maharaja Agrasen Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>October 19-24, 2020</b>	implications of e-commerce for accounting professionals.
<b>October 25, 2020</b>	<b>Sunday (Dussehra)</b>
5 <sup>th</sup> Week <b>October 26-30, 2020</b>	Regulatory environment:- cryptography issues, privacy issues (children's issues, adults rights),
<b>October 31, 2020</b>	<b>Maharishi Valmiki Jayanti</b>
<b>November, 2020</b>	
<b>November 01, 2020</b>	<b>Sunday (Haryana Day)</b>
1 <sup>st</sup> Week <b>November 02-07, 2020</b>	domain name disputes, electronic agreements & digital signatures,
<b>November 08, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>November 09-10,12-13, 2020</b>	internet service provider, firewalls, tcp/lp, OSI
<b>November 14, 2020</b> <b>November 15, 2020</b>	<b>Diwali</b> <b>Sunday</b>
3 <sup>rd</sup> Week <b>November 17-21, 2020</b>	Firewall ,components of firewall, limitations of the security preventions provide by firewalls.
<b>November 22, 2020</b>	<b>Sunday</b>
4 <sup>th</sup> Week <b>November 23-24,26-28, 2020</b>	EDI e-commerce & internet:- traditional EDI systems(origin, non EDI systems)
<b>November 29, 2020</b> <b>November 30, 2020</b>	<b>Sunday</b> <b>Guru Nanak's Birthday</b>
<b>December, 2020</b>	
1 <sup>st</sup> Week <b>December 01-05, 2020</b>	Value added networks, partially & fully integrated EDI systems, benefits of EDI systems.
<b>December 06, 2020</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>December 07-12, 2020</b>	
<b>December 13, 2020</b>	<b>Sunday</b>
5 <sup>th</sup> Week <b>December 28-31, 2020</b>	financial EDI & EDI systems & internet. Intelligent agents, web based marketing.

## Lesson Plan for the Odd Semester (October, 2020 to February, 2021)

Name of the Teacher-**Ms.TarjeetKaur**

Subject- **Computers**

Paper- **BBA-106: Computer Fundamentals**

Class- **BBA I**

<b>January, 2021</b>	
1 <sup>st</sup> Week <b>January 01-02, 2021</b>	Revision and Test
<b>January 03, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>January 04-09, 2021</b>	Risk management paradigm, role of internet, controls in risk management.
<b>January 10, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>January 11-16, 2021</b>	Revision and Group Discussion
<b>January 17, 2021</b> <b>January 20, 2021</b>	<b>Sunday</b> <b>Guru Gobind Singh's Birthday</b>
4 <sup>th</sup> Week <b>January 18-19, 21-23, 2021</b>	<b>Sessional Exams</b>
<b>January 24, 2021</b> <b>January 26, 2021</b>	<b>Sunday</b> <b>Republic Day</b>
5 <sup>th</sup> Week <b>January 25, 28-30, 2021</b>	Financial EDI & EDI systems & internet.
<b>January 31, 2021</b>	<b>Sunday</b>
<b>February, 2021</b>	
1 <sup>st</sup> Week <b>01 February 01-06, 2021</b>	Intelligent agents, web based marketing,
<b>February 07, 2021</b>	<b>Sunday</b>
2 <sup>nd</sup> Week <b>February 08-13, 2021</b>	Risk management paradigm,
<b>February 14, 2021</b>	<b>Sunday</b>
3 <sup>rd</sup> Week <b>February 15-20, 2021</b>	Role of internet, controls in risk management.
<b>February 16, 2021</b> <b>February 21, 2021</b>	<b>VasantPanchmi</b> <b>Sunday</b>
4 <sup>th</sup> Week <b>February 22, 2021</b>	Revision of Syllabus