

## Lesson Plan (Odd Semester)

Indira Gandhi National College, Ladwa

Name: RAJBIR

Class: B.A. I YEAR

Subject: COMPUTER SC.

PAPER I: Computer and Programming Fundamentals

SEMESTER: I

SESSION: 2020-21

Duration: 16 weeks

<b>Week 1 Assignments</b> (2-7Nov.)	Computer Fundamentals: Definition, Functional components of computer, characteristics & classification of computers, Applications of computers in various fields.
<b>Week 2 Assignments</b> (9-14Nov.)	Memory: Concept of primary & secondary memory, RAM, ROM, types of ROM, Cache memory, CPU Registers
<b>Week 3 Assignments</b> (16-21Nov.)	Flash memory, Secondary storage devices: Sequential & direct access devices.
<b>Week 4 Assignments</b> (23-28Nov.)	Magnetic tape, Magnetic Disk, CD, DVD.
<b>Week 5 Assignments</b> (30Nov.-5 Dec.)	I/O devices, definition of software, relationship between hardware and software.
<b>Week 6 Assignments</b> (7-12 Dec.)	Types of software, motherboard, ports. Overview of operating system: Definition, functions of operating system.
<b>Week 7 Assignments</b> (14-19 Dec.)	Multiprogramming, multitasking, multithreading, multiprocessing, time-sharing, real time
<b>Week 8 Assignments</b> (21-26 Dec.)	Single-user & multi-user operating system, examples of various operating systems.
<b>Week 9 Assignments</b> (28 Dec.-2 Jan)	Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming,
<b>Week 10 Assignments</b> (4-9 Jan)	Documentation. Techniques of Problem Solving: Flowcharting, algorithms.
<b>Week 11 Assignments</b> (11-16 Jan)	Pseudo code, Decision table.
<b>Week 12 Assignments</b> (18-23 Jan)	Structured programming concepts, Programming methodologies viz. top-down and bottom up programming.
<b>Week 13 Assignments</b> (25-30 Jan)	Searching, Sorting, and Merging: Linear & Binary Searching, Bubble, Selection, and Insertion Sorting,
<b>Week 14 Assignments</b> (1-6 Feb.)	Merging. Computer Languages: Analogy with natural language, machine language, assembly language, high-level language.
<b>Week 15 Assignments</b> (8-13 Feb.)	language translators, characteristics of a good programming languages.
<b>Week 16 Assignments</b> (15-18 Feb.)	<b>REVISION OF SYLLABUS</b>

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PAPER I: Computer and Programming Fundamentals

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**Lesson Plan (Odd Semester)****Indira Gandhi National College, Ladwa****Name: RAJBIR****Class: B.A. I YEAR****Subject: COMPUTER SC.****PAPER II: PC-SOFTWARES****SEMESTER: I****SESSION: 2020-21****Duration: 16 weeks**

<b>Week 1 Assignments (2-7Nov.)</b>	Windows: Basics of Windows. Windows History, Basic components of windows, icons, types of icons, taskbar.
<b>Week 2 Assignments (9-14Nov.)</b>	Activating windows, using desktop, title bar, running applications.
<b>Week 3 Assignments (16-21Nov.)</b>	Windows explorer, managing files and folders, Configuring System devices. Control panel.
<b>Week 4 Assignments (23-28Nov.)</b>	Using windows accessories.
<b>Week 5 Assignments (30Nov.-5 Dec.)</b>	Documentation Using Word - Introduction to Office Automation, Creating & Editing Document.
<b>Week 6 Assignments (7-12 Dec.)</b>	Formatting Document, Auto-text, Autocorrect, Spelling and Grammar Tool, Document Dictionary.
<b>Week 7 Assignments (14-19 Dec.)</b>	Page Formatting, Bookmatures of ark, Advance Features, MS-Word-Mail Merge, Macros.
<b>Week 8 Assignments (21-26 Dec.)</b>	Tables, File Management, Printing, Styles, linking and embedding object.
<b>Week 9 Assignments (28 Dec.-2 Jan)</b>	Presentation using PowerPoint: Presentations, Creating, Manipulating & Enhancing Slides
<b>Week 10 Assignments (4-9 Jan)</b>	Organizational Charts, Excel Charts, Word Art, Layering art Objects,
<b>Week 11 Assignments (11-16 Jan)</b>	Animations and Sounds, Inserting Animated Pictures or Accessing through Object.
<b>Week 12 Assignments (18-23 Jan)</b>	Inserting Recorded Sound Effect or In-Built Sound Effect.
<b>Week 13 Assignments (25-30 Jan)</b>	Electronic Spread Sheet using Excel - Introduction to MS-Excel, Creating & Editing Worksheet.
<b>Week 14 Assignments (1-6 Feb.)</b>	Formatting and Essential Operations, Formulas and Functions
<b>Week 15 Assignments (8-13 Feb.)</b>	Charts, Advance features of MS-Excel-Pivot table & Pivot Chart, Linking and Consolidation.
<b>Week 16 Assignments (15-18 Feb.)</b>	Database Management using Excel-Sorting, Filtering, Table, Validation, Goal Seek, Scenario.

## Lesson Plan (Odd Semester)

Indira Gandhi National College, Ladwa

Name: RAJBIR

Class: B.SC. I YEAR

Subject: COMPUTER SC.

PAPER II: PC-SOFTWARES

SEMESTER: I

SESSION: 2020-21

Duration: 16 weeks

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**Lesson Plan (Odd Semester)****Indira Gandhi National College, Ladwa**

**Name:** RAJBIR **Class:** B.A. II YEAR  
**Subject:** COMPUTER SC. **PAPER I: DATA STRUCTURES**  
**SEMESTER:** III **SESSION:** 2020-21

**Duration: 16 weeks**

<b>Week 1 Assignments (2-7Nov.)</b>	Introduction: Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures, Data structure operations,
<b>Week 2 Assignments (9-14Nov.)</b>	Applications of data structures, Algorithms complexity and time-space tradeoff, Big-O notation.
<b>Week 3 Assignments (16-21Nov.)</b>	Strings: Introduction, strings, String operations,
<b>Week 4 Assignments (23-28Nov.)</b>	Pattern matching algorithms. Arrays: Introduction, Linear arrays, Representation of linear array in memory,.
<b>Week 5 Assignments (30Nov.-5 Dec.)</b>	Traversal, Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix.
<b>Week 6 Assignments (7-12 Dec.)</b>	Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal, Insertion, Deletion.
<b>Week 7 Assignments (14-19 Dec.)</b>	Searching in a linked list, Header linked list, Circular linked list, Two-way linked list,
<b>Week 8 Assignments (21-26 Dec.)</b>	Garbage collection, Applications of linked lists. Algorithm of insertion/ deletion in SLL
<b>Week 9 Assignments (28 Dec.-2 Jan)</b>	stack: primitive operation on stack, algorithms for push and pop. Representation of Stack as Linked List and array,
<b>Week 10 Assignments (4-9 Jan)</b>	Stacks applications : polish notation, recursion. Introduction to queues, Primitive Operations on the Queues
<b>Week 11 Assignments (11-16 Jan)</b>	Circular queue, Priority queue, Representation of Queues as Linked List and array, Applications of queue.
<b>Week 12 Assignments (18-23 Jan)</b>	Algorithm on insertion and deletion in simple queue and circular queue
<b>Week 13 Assignments (25-30 Jan)</b>	Trees - Basic Terminology, representation, Binary Trees.
<b>Week 14 Assignments (1-6 Feb.)</b>	Tree Representations using Array & Linked List, Basic operation on Binary tree,
<b>Week 15 Assignments (8-13 Feb.)</b>	Traversal of binary trees:- In order, Preorder & post order, Applications of Binary tree. Algorithm of tree traversal with and without recursion.
<b>Week 16 Assignments (15-18 Feb.)</b>	Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of graphs

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Indira Gandhi National College, Ladwa

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Subject: COMPUTER SC. PAPER I: DATA STRUCTURES  
SEMESTER: III SESSION: 2020-21

Duration: 16 weeks

<b>Week 1 Assignments</b> (2-7Nov.)	Introduction: Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures, Data structure operations,
<b>Week 2 Assignments</b> (9-14Nov.)	Applications of data structures, Algorithms complexity and time-space tradeoff, Big-O notation
<b>Week 3 Assignments</b> (16-21Nov.)	Strings: Introduction, strings, String operations,
<b>Week 4 Assignments</b> (23-28Nov.)	Pattern matching algorithms. Arrays: Introduction, Linear arrays, Representation of linear array in memory,.
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<b>Week 6 Assignments</b> (7-12 Dec.)	Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal, Insertion, Deletion.
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<b>Week 8 Assignments</b> (21-26 Dec.)	Garbage collection, Applications of linked lists. Algorithm of insertion/ deletion in SLL
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<b>Week 10 Assignments</b> (4-9 Jan)	Stacks applications : polish notation, recursion. Introduction to queues, Primitive Operations on the Queues
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<b>Week 12 Assignments</b> (18-23 Jan)	Algorithm on insertion and deletion in simple queue and circular queue
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<b>Week 14 Assignments</b> (1-6 Feb.)	Tree Representations using Array & Linked List, Basic operation on Binary tree,
<b>Week 15 Assignments</b> (8-13 Feb.)	Traversal of binary trees:- In order, Preorder & post order, Applications of Binary tree. Algorithm of tree traversal with and without recursion.
<b>Week 16 Assignments</b> (15-18 Feb.)	Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of graphs

## Lesson Plan (Odd Semester)

Indira Gandhi National College, Ladwa

Name: RAJBIR	Class: B.A. II YEAR
Subject: COMPUTER SC.	PAPER II: SOFTWARE ENGINEERING
SEMESTER: III	SESSION: 2020-21

Duration: 16 weeks

<b>Week 1 Assignments</b> (2-7Nov.)	Introduction: Program vs. Software, Software Engineering, Programming paradigms, Software Crisis – problem and causes,
<b>Week 2 Assignments</b> (9-14Nov.)	Phases in Software development: Requirement Analysis, Software Design, Coding, Testing, Maintenance, Software Development
<b>Week 3 Assignments</b> (16-21Nov.)	Process Models: Waterfall, Prototype.
<b>Week 4 Assignments</b> (23-28Nov.)	Evolutionary and Spiral models, Role of Metrics
<b>Week 5 Assignments</b> (30Nov.-5 Dec.)	Feasibility Study, Software Requirement Analysis and Specifications: SRS.
<b>Week 6 Assignments</b> (7-12 Dec.)	Need for SRS, Characteristics of an SRS, Components of an SRS, Problem Analysis.
<b>Week 7 Assignments</b> (14-19 Dec.)	Information gathering tools, Organising and structuring information.
<b>Week 8 Assignments</b> (21-26 Dec.)	Requirement specification, validation and metrics
<b>Week 9 Assignments</b> (28 Dec.-2 Jan)	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary,
<b>Week 10 Assignments</b> (4-9 Jan)	Decision table, Decision trees, Structured English.
<b>Week 11 Assignments</b> (11-16 Jan)	Entity-Relationship diagrams .Software Project Planning: Cost estimation: COCOMO model
<b>Week 12 Assignments</b> (18-23 Jan)	Project scheduling, Staffing and personnel planning, team structure, Software configuration management, Quality assurance plans, Project monitoring plans, <b>Risk Management.</b>
<b>Week 13 Assignments</b> (25-30 Jan)	Software testing strategies: unit testing, integration testing, V and V ,
<b>Week 14 Assignments</b> (1-6 Feb.)	System testing, Alpha and Beta testing. Black box, white box testing.
<b>Week 15 Assignments</b> (8-13 Feb.)	Cyclomatic Complexity. Software Implementation and Maintenance: Type of maintenance,
<b>Week 16 Assignments</b> (15-18 Feb.)	Management of Maintenance, Maintenance Process, maintenance characteristics.

**Lesson Plan (Odd Semester)****Indira Gandhi National College, Ladwa****Name: RAJBIR****Class: B.SC. II YEAR****Subject: COMPUTER SC.****PAPER II: SOFTWARE ENGINEERING****SEMESTER: III****SESSION: 2020-21****Duration: 16 weeks**

<b>Week 1 Assignments (2-7Nov.)</b>	Introduction: Program vs. Software, Software Engineering, Programming paradigms, Software Crisis – problem and causes,
<b>Week 2 Assignments (9-14Nov.)</b>	Phases in Software development: Requirement Analysis, Software Design, Coding, Testing, Maintenance, Software Development
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<b>Name:</b> RAJBIR	<b>Class:</b> B.A. III YEAR
<b>Subject:</b> COMPUTER SC.	<b>PAPER I: FUNDAMENTALS OF DATABASE SYSTEMS</b>
<b>SEMESTER:</b> IV	<b>SESSION: 2020-21</b>

**Duration: 16 weeks**

<b>Week 1 Assignments (2-7Nov.)</b>	Basic Concepts – Data, Information, Records and files. Traditional file Based Approach-Limitations of Traditional File Based Approach.
<b>Week 2 Assignments (9-14Nov.)</b>	Database Approach-Characteristics of Database Approach,
<b>Week 3 Assignments (16-21Nov.)</b>	Database Management System (DBMS), Components of DBMS Environment,
<b>Week 4 Assignments (23-28Nov.)</b>	DBMS Functions and Components, Advantages and Disadvantages of DBMS.
<b>Week 5 Assignments (30Nov.-5 Dec.)</b>	Actors on the Scene - Data and Database Administrator, Database Designers, End users Applications Developers and Workers behind the Scene. Database System Architecture –
<b>Week 6 Assignments (7-12 Dec.)</b>	Three Levels of Architecture, Schemas – External, Conceptual and Internal Level
<b>Week 7 Assignments (14-19 Dec.)</b>	Database Languages – VDL, DDL, SDL, DML, SQL, Mappings – External/ Conceptual and Conceptual/Internal, Instances,
<b>Week 8 Assignments (21-26 Dec.)</b>	Data Independence – Logical and Physical Data Independence.
<b>Week 9 Assignments (28 Dec.-2 Jan)</b>	Data Models: High Level, Low Level and Representational – Records- based Data Models
<b>Week 10 Assignments (4-9 Jan)</b>	Object-based Data Models, Physical Data Models and Conceptual Models Entity-Relationship Model – Concepts, Entity Types, Entity Sets,.
<b>Week 11 Assignments (11-16 Jan)</b>	Attributes, Relationships, Constraints, Keys , Degree, Cardinality etc.
<b>Week 12 Assignments (18-23 Jan)</b>	ER Diagrams of any Database Organization- Inventory System, Payroll System, Reservation System, Online Book Store etc.
<b>Week 13 Assignments (25-30 Jan)</b>	Classification of Database Management System, Centralized and Client Server Architecture Relational Data Model:-Brief History,
<b>Week 14 Assignments (1-6 Feb.)</b>	Terminology in Relational Data Structure, Relations, Properties of Relations.
<b>Week 15 Assignments (8-13 Feb.)</b>	Keys – Primary, Secondary, Composite, Candidate, Alternate and Foreign Key, Domains,
<b>Week 16 Assignments (15-18 Feb.)</b>	Integrity Constraints over Relations.

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**SEMESTER: IV** **SESSION: 2020-21**

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**Lesson Plan (Odd Semester)**

Indira Gandhi National College, Ladwa

Name: RAJBIR    Class: B.A. III YEAR  
Subject: COMPUTER SC.    PAPER II: WEB DESIGNING  
SEMESTER: IV    SESSION: 2020-21

Duration: 16 weeks

<b>Week 1 Assignments (2-7Nov.)</b>	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web.
<b>Week 2 Assignments (9-14Nov.)</b>	Basic Features; Web Browsers; Web Servers; Hypertext Transfer
<b>Week 3 Assignments (16-21Nov.)</b>	Protocol; URLs; Searching and Web-Casting Techniques;
<b>Week 4 Assignments (23-28Nov.)</b>	Search Engines and Search Tools
<b>Week 5 Assignments (30Nov.-5 Dec.)</b>	Steps for Developing Website; Choosing the Contents; Home Page;
<b>Week 6 Assignments (7-12 Dec.)</b>	Domain Names; Internet Service Provider;
<b>Week 7 Assignments (14-19 Dec.)</b>	Planning and Designing Web Site;
<b>Week 8 Assignments (21-26 Dec.)</b>	Creating a Website; Web Publishing: Hosting Site;
<b>Week 9 Assignments (28 Dec.-2 Jan)</b>	Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body
<b>Week 10 Assignments (4-9 Jan)</b>	Tags: Paragraph, Ordered/Unordered Line, Creating Links; Headers; Text Styles; Text Structuring;
<b>Week 11 Assignments (11-16 Jan)</b>	Text Colors and Background; Formatting Text; Page layouts.
<b>Week 12 Assignments (18-23 Jan)</b>	Insertion of Text, Movement of Text
<b>Week 13 Assignments (25-30 Jan)</b>	Images: Types of Images, Insertion of Image, Movement of Image,
<b>Week 14 Assignments (1-6 Feb.)</b>	Ordered and Unordered lists; Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours;
<b>Week 15 Assignments (8-13 Feb.)</b>	Frame Creation and Layouts; Working with Forms and
<b>Week 16 Assignments (15-18 Feb.)</b>	Menus; Working with Buttons like Radio, Check Box;

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<b>SEMESTER:</b> IV	<b>SESSION:</b> 2020-21

Duration: 16 weeks

<b>Week 1 Assignments (2-7Nov.)</b>	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic
<b>Week 2 Assignments (9-14Nov.)</b>	Features; Web Browsers; Web Servers; Hypertext Transfer
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<b>Week 4 Assignments (23-28Nov.)</b>	Search Engines and Search Tools
<b>Week 5 Assignments (30Nov.-5 Dec.)</b>	Steps for Developing Website; Choosing the Contents; Home Page.
<b>Week 6 Assignments (7-12 Dec.)</b>	Domain Names; Internet Service Provider;
<b>Week 7 Assignments (14-19 Dec.)</b>	Planning and Designing Web Site.
<b>Week 8 Assignments (21-26 Dec.)</b>	Creating a Website; Web Publishing: Hosting Site;
<b>Week 9 Assignments (28 Dec.-2 Jan)</b>	Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body,
<b>Week 10 Assignments (4-9 Jan)</b>	Tags: Paragraph, Ordered/Unordered Line, Creating Links; Headers; Text Styles; Text Structuring;
<b>Week 11 Assignments (11-16 Jan)</b>	Text Colors and Background; Formatting Text; Page layouts;
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<b>Week 13 Assignments (25-30 Jan)</b>	Images: Types of Images, Insertion of Image, Movement of Image,
<b>Week 14 Assignments (1-6 Feb.)</b>	Ordered and Unordered lists; Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours;
<b>Week 15 Assignments (8-13 Feb.)</b>	Frame Creation and Layouts; Working with Forms and
<b>Week 16 Assignments (15-18 Feb.)</b>	Menus; Working with Buttons like Radio, Check Box.

