Summary of Lesson Plan of College Faculty

Name of College: GOVT. COLLEGE JIND

ACADEMIC SESSION: AUGUST – DECEMBER 2023-24

S.N.	Name of Assistant/ Associate Professor/Class	Subject/Week/Month	TOPIC/ Chapters to be covered
1	**SEEMA RANI ASSISTANT PROFESSOR**	**COMPUTR SCIENCE**	**WEB DESIGNING**
	BSC NM VTH SEM CS	**JULY**	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Web Browsers; Web Servers; HTP; URLs; Searching and Web Casting Techniques; Search Engines and Search Tools;
		AUGUST	Steps for Developing Website; Home Page; Domain Names; Internet Service Provider; Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body, Paragraph; Creating Links; Planning and Designing Web Site; Creating a Website; Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body, Paragraph, Creating Links; Text Styles; Text Structuring; Text Colors and Background; Formatting Text; Page layouts; Assignment I
		SEPTEMBER	Insertion of Text, Movement of Text ; Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists; Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colors; Frame Creation and Layouts; Working with Forms and Menus; Working with Buttons like Radio, Check Box; Class Test I **DBMS** Basic Concepts – Data, Information, Records and files, Database Management System (DBMS);
		OCTOBER	Components of DBMS Environment, DBMS Functions, Advantages and Disadvantages of DBMS; Actors on the Scene - Data and Database Administrator, Database Designers, End users Applications Developers and Workers behind the Scene; Database System Architecture – Three Levels of Architecture, Schemas – External, Conceptual and Internal Level, Database Languages – VDL, DDL, SDL, DML, SQL, Mappings,

			Instances, Data Independence – Logical and Physical Data Independence; Data Models: High Level, Low Level and Representational – Records- based Data Models, Object-based Data Models, Physical Data Models and Conceptual Models; Class Test II, Assignment II
		NOVEMBER	Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships, Constraints, Keys , Degree, Cardinality etc. ER Diagrams; Classification of Database Management System; Relations, Properties of Relations; Keys – Primary, Secondary, Composite, Candidate, Alternate and Foreign Key, Domains, Integrity Constraints over Relations;
2	**SEEMA RANI ASSISTANT PROFESSOR**	**COMPUTER SCIENCE**	**COMPUTER FUNDAMENTA LS**
	PGDCA	**AUGUST**	Computer components, Generations of computers, Characteristics and classification of computers. Hardware, software, firmware, Memory and its types: Random access, sequential access, Magnetic disk, optical disc, flash memory
		SEPTEMBER	Programming languages: Low level programming languages, High level languages, Assembler, Complier, Interpreter. **Peripheral devices:-**Keyboard, Pointing Devices: Mouse, Trackball, Touch Panel, Joystick. Light Pen, Scanners, Monitor, OMR, Bar-code Reader, Hard Copy Devices: Impact and Non-Impact Printers-Daisy Wheel, Dot Matrix, Laser Printer, Plotters, speakers, Projector. Assignment 1
		OCTOBER	Internet and Multi Media: What is Internet ?, Advantages and Disadvantages of Internet, Electronic Mail, Attaching a document with e- mail. FTP, Telnet, World Wide Web, Uniform Resource Locator (URL), Web Browsers, Internet Search Engine, Multimedia Components: Text, Graphics, Animation, Audio, Video, Multimedia applications. Class Test
		NOVEMBER	**Using Windows Operating System:** What is an Operating System, Main functions of an Operating System. Starting Windows, Using the Mouse, Start Menu, Shutting Down, Customizing the Desktop, Moving, Resizing and Closing

			an Application Window, Control Panel ,Taskbar, Window Explorer, Creating new Folder or File, copying and moving files and folders, Recycle Bin, Using System Tools, User Accounts, Creating Shortcuts on Desktop, Windows Media Player, Windows accessories. Assignment II
3	**SEEMA RANI ASSISTANT PROFESSOR**	**COMPUTER SCIENCE**	**LAB (WEB DESIGNING)**
	B. Sc. NM VTH SEM CS	**AUGUST**	PROGRAM 1 PROGRAM 2 PROGRAM 3 PROGRAM 4
		SEPTEMBER	PROGRAM 5 PROGRAM 6 PROGRAM 7 PROGRAM 8
		OCTOBER	PROGRAM 9 PROGRAM 10 PROGRAM 11 PROGRAM 12
		NOVEMBER	PROGRAM 13 PROGRAM 14 PROGRAM 15

4	**SEEMA RANI ASSISTANT PROFESSOR**	**COMPUTER SCIENCE**	**LAB (WEB DESIGNING)**
	BCA IIIRD SEM	**AUGUST**	PROGRAM 1 PROGRAM 2 PROGRAM 3 PROGRAM 4
		SEPTEMBER	PROGRAM 5 PROGRAM 6 PROGRAM 7 PROGRAM 8 Practical Assignment-I
		OCTOBER	PROGRAM 9 PROGRAM 10 PROGRAM 11 PROGRAM 12 Practical Implement Test and Viva
		NOVEMBER	PROGRAM 13 PROGRAM 14 PROGRAM 15 Practical Assignment-II

SUMM

NAME OF THE COLLEGE- GOVT. COLLE

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/we ek/ month
1	Dr. Suman	Computer Science
	BCA 1Ind Sem	JULY
		AUGUST
		SEPTEMBER
		OCTOBER
		NOVEMBER

2	**Dr. Suman**	**Computer Science**
	BA 1st Semester	**SEPTEMBER**
		OCTOBER
		NOVEMBER
4	**Dr. Suman**	**Computer Science**
		JULY
		AUGUST

	PGDCA	**SEPTEMBER**
		OCTOBER
		NOVEMBER
3	**Dr. Suman**	**Computer Science**
		JULY
		AUGUST
	BCA 1Ind Sem	**SEPTEMBER**
		OCTOBER

		NOVEMBER
3	**Dr. Suman**	**Computer Science**
		SEPTEMBER
		OCTOBER
		NOVEMBER

1ARY OF LESSON PLAN OF COLLEGE FACULTY
GE, JIND ACADEMIC SESSION (2023-24)SEMESTER ODD FOR THE MONTH JULY TO NOVEMBER

Topic/ Chapters to be covered	**Topic of Assignments/ Tests to be given**
Object Oriented Programming using C++	
Data-types, Variables, Static Variables, Operators in C++, Arrays,Strings, Structure, Functions, Recursion, Control Statements,: Class Definition, Classes and Objects, Access Specifiers: Private, Publicand Protected, Member functions of the class,Constructor and Destructor, Parameterized Constructor , Copy Constructors.	
Types of Inheritance: Single inheritance, Multiple, Multilevel, HybridInheritance, Public, Private, and Protected Derivations, Using derived class, Constructor anddestructor in derived class, Object initialization and conversion, Nested classes(Container classes), Virtual Inheritance and Virtual base class.	**(I- Assignment)**
Function Overloading, Static Class Members, Static Member Functions, Friend Functions, Operator Overloading: Unary and Binary Operator Overloading. Abstract class,Virtual function, Pure virtual function, Overloading vs. Overriding. Memory management: new,delete, object Creation at Run Time,	
This Pointer. Exception handling: Throwing, Catching, Rethrowing an exception, specifying exceptions, processing unexpected exceptions, Exceptions when handling exceptions, resource capture and release.	**(unit test)**
Introduction, Class templates and Function templates, Overloading of template function, namespaces,ntroduction to STL: Standard Template Library: benefits of STL,containers, adapters, iterator, vector, list. Revision	**(II-Assingnment)**

SEC: BASIC IT TOOLS	
Introduction to Computer: Computer and Latest IT gadgets, Evolution of Computers & its applications, Basics of Hardware and Software, Application Software, Systems Software, Utility Software. Central Processing Unit, Input devices, Output devices, Computer Memory & storage, Mobile Apps.Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop, Operating Systems for Mobile Phone and	**(I- Assignment)**
Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application, Operating System Simple Setting, Changing System Date and Time, Changing Display Properties, To Add or Remove Program and Features, Adding, Removing & Sharing Printers, File and Folder Management.Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Network Topology, Internet, Applications of Internet,	**(unit test)**
Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.), Popular Search Engines, Searching on the Internet.Attaching files with email, Email Signature. Social Networking: Facebook, Twitter, LinkedIn, Instagram, Instant Messaging (WhatsApp, Facebook Messenger, Telegram), Introduction to Blogs, Digital Locker.E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E- mail, replying to an E-mail message, forwarding an E-mail message, searching emails,	**PRESENTATION** **Revision**
DBMS	
Definition of Data Base and Data Base Management System, File Systems vs. DMBS, Characteristics of the Database ApproachAbstraction and Data Integration, Database users, Advantages and Disadvantages of DBMS. Database Systems Concepts and Architecture: Data Models, Schema and Instances,	**(I- Assignment)**
DBMS architecture, Data Independence, Database languages, DBMS functions. Purpose of ER Model, Entity Types, Entity Sets, Attributes, keys, Relationships, Roles and Structural Constraints,	

E-R Diagrams, Design of an ER Database Schema, Reduction of an ER schema to Tables. Relational Data Model: Relational Model Concepts, Integrity Constraints over Relations, Relational Algebra – Basic Operations.	**(unit test)**
Data Definition and Data Types, DDL, DML, and DCL, Views & Queries in SQL, Specifying Constraints & Indexes in SQL. Relational Database Management System: ORACLEBasic structure, Storage Management in ORACLE Database Structure & implementation in ORACLE, Programming ORACLE Applications. Conventional Data Models: Network and Hierarchical Data Models.	**(II-Assingnment)**
Functional Dependencies, Decomposition, Normal forms based on primary keys- (1NF, 2NF, 3NF, BCNF), Multi- valued Dependencies, 4 NF, Join dependencies, 5 NF. Transaction Processing Concepts: Introduction to Transaction, Properties of Transaction,Transaction Processing System Concepts, Schedules and Recoverability, Serializability of Schedules.	**Revision**
LAB (C ++ PROGRAMMING LANGUAGE)	
PROGRAM 1	
PROGRAM 2	
PROGRAM 3	
PROGRAM 4	
PROGRAM 5	
PROGRAM 6	
PROGRAM 7	
PROGRAM 8	
PROGRAM 9	
REVISION	
PROGRAM 10	
PROGRAM 11	
PROGRAM 12	
PROGRAM 13	
PROGRAM 14	
PROGRAM 15	
PROGRAM 16	
PROGRAM 17	
PROGRAM 18	

PROGRAM 19	
PROGRAM 20	**Revision**
PROGRAM 21	
PROGRAM 22	
PROGRAM 23	
PROGRAM 24	
PROGRAM 25	
REVISION	
LAB SEC.(BASIC IT TOOLS)	**PRACTICAL WORK**
WINDOWS ,M.S. WORD	
M.S. EXCEL,POWERPOINT ,	
INTERNET, CASE STUDIES OF DIFFERENT FIELDS	

NAME OF THE COLLEGE- GOVT. COLLEGE, JIND ACADE

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month
1	Dr. kamlesh	Computer Science
	BCA1st sem	July
		August
		September
		October
		November
2	Dr.kamlesh	Computer Science

	BCA Ist Year	July
		August
		September
		October
		November
3	Dr.kamlesh	Computer Science

	BCA 1st Sem	July
		August
		September
		October
		November
4	Dr. kamlesh	Computer Science

	SECTION Eand J	SEPTEMBER
		October November
		November
5	Dr. kamlesh	Computer Science
		September
		October

	BCA st sem	**November**
6	**Dr. kamlesh**	**Computer Science**
		September
	Basic IT Tools	October
		November

SUMMARY OF LESSON PLAN OF COLLEGE FACULTY

:MIC SESSION (2022-23)SEMESTER ODD FOR THE MONTH OF August TO jan 2023

Topic/ Chapters to be covered	**Academic activities to be organized**
Problem Through C	
C Character set, Tokens, keywords and identifiers, constants, variables, data types and preprocessors. C Operators: Arithmetic, relational, logical, bitwise, unary, assignment and conditional operators and their hierarchy.	
format specifiers, getch, getchar, getche, gets and puts. Formatted input and output using scanf and printf statements	
Types of control statements, if-else, nested if-else, else-if ladder, switch statement, conditional control statement (? :), loops: for, while and do- while, break, continue and go to.	
Types of control statements, if-else, nested if-else, else-if ladder, switch statement, conditional control statement (? :), loops: for, while and do- while, break, continue and go to.	
Arrays: Definition, types, initialization, processing an array, passing arrays to functions, dynamic arrays. String handling, reading and writing strings, string	
REVISION	
FOUNDATIONS OF COMPUTER SCIENCE	
Computer Fundamentals: Evolution of Computers through	

generations, Characteristics of Computers, Strengths and Limitations of Computers, Classification of Computers, Functional Components of a Computer System, Applications ofcomputersin Various Fields. Types ofSoftware: System software, Application software, Utility Software, Shareware, Freeware, Firmware, Free Software.	
Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units ofstorage capacity, access time, concept of memory hierarchy. PrimaryMemory - RAM, ROM, PROM, EPROM. Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory	
I/ODevices:I/OPortsofaDeskTopComputer,DeviceController,DeviceDriver. InputDevices: classification and use, keyboard, pointing devices - mouse, touch pad and track ball, joystick, magnetic stripes, scanner,digital camera, and microphone Output Devices:speaker, monitor, printers:	
Introduction to OperatingSystem: Definition, Functions, Features of OperatingSystem, Icon, Folder, File, Start Button, Task Bar, Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel	
The Internet: Introduction to networks and internet, history, Internet, Intranet & Extranet, Working of Internet, Modes of Connecting to Internet. Electronic Mail: Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses, message components, message composition, mailer features. Browsers and search engines.	
The Internet: Introduction to networks and internet, history, Internet, Intranet & Extranet, Working of Internet, Modes of Connecting to Internet. Electronic Mail: Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses, message components, message composition, mailer features. Browsers and search engines.	
LOGICAL ORGANISATIONS	
NumberSystems:Binary,Octal,Hexadecimaletc.Conversionsfromonenumbersystemtoanother,BCD Number	

System.BCDCodes:NaturalBinaryCode,WeightedCode,Self-ComplimentingCode,CyclicCode. Error Detecting and Correcting Codes. Character representations: ASCII, EBCDIC and Unicode. Number Representations: Integer numbers- sign-magnitude, 1's & 2's complement representation. RealNumbers normalized floating point representations.	
Binary Arithmetic: Binary Addition, Binary Subtraction, Binary Multiplication, Binary Division using 1's and 2's Compliment representations, Addition and subtraction with BCD representations. Boolean Algebra: Boolean Algebra Postulates, basic Boolean Theorems, Boolean Expressions, Boolean Functions, Truth Tables, Canonical Representation of Boolean Expressions: SOP and POS. Simplification of Boolean Expressions using	
Introduction to JavaScript, Perspective, Basic Syntax, Data Types, Variables Statements, Operators, Literals, Control statements, Functions, Arrays, Document Object Model, Built-in Objects.	
LogicGates:BasicLogicGates–AND,OR,NOT,UniversalGates–NAND,NOR,OtherGates–XOR, XNOR etc. Their symbols, truth tables and Boolean expressions. CombinationalCircuits:DesignProcedures,HalfAdder,FullAdder,HalfSubtractor,FullSubtracor, Multiplexers, Demultiplexers, Decoder, Encoder, Comparators, Code Converters	
Sequential Circuits: Basic Flip- Flops and their working. Synchronous and Asynchronous Flip –Flops, Triggering of Flip-Flops, Clocked RS, D Type, JK, T type and Master-Slave Flip-Flops. State Table, State Diagram and State Equations.Flip-flops characteristics & Excitation Tables.Sequential Circuits: Designing registers –Serial-In Serial-Out (SISO), Serial-In Parallel-Out (SIPO), Parallel-In Serial-Out (PISO)Parallel-InParallel-Out(PIPO)andshiftregisters.	
Basic IT Tools	
Introduction to Computer: Computer and Latest IT gadgets, Evolution of Computers & its applicationBasics of Hardware and Software, Application Software, Systems Software, Utility Software. Central ProcessUnit, Input devices, Output devices, Computer Memory &	
Introduction to Operating System, Functions of the	

Operating system, Operating Systems for Desktop and Laptop, Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application, Operating	
Process Planning, Effort Estimation: uncertainties in effort estimation, building effort estimation models, COCOMO model, Project Scheduling and Staffing, Software configuration management plan, Quality Plan, Risk Management, Project Monitoring Plan	
Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Network Topology, Internet, Applications of Internet, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.), Popular Engines, E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail, replying to an E-mail message, forwarding an E-mail message, searching emails, Attaching files with email, Email Signature. Social Networking: Facebook, Twitter, LinkedIn, Instagram, Instant Messaging (WhatsApp, Facebook Messenger, Telegram), Introduction to Blogs, Digital Locker	
LAB (C- LANGUAGE)	
PROGRAM 1	
PROGRAM 2	
PROGRAM 3	
PROGRAM 4	
PROGRAM 5	
PROGRAM 6	
PROGRAM 7	
PROGRAM 8	
PROGRAM 9	
REVISION	
PROGRAM 10	
PROGRAM 11	

PROGRAM 12	
PROGRAM 13	
PROGRAM 14	
LAB (Basic IT TOOLS)	
Ms Word, Excel,PPT,Windows	assignment 1
Introduction to Internet and World Wide Web, Website Address and URL,	mid term test
Popular Web Browsers (Internet Explorer/Edge, Chrome	
Revision	

Topic of Assignments/ Tests to be given
(I- Assignment)
presentation
(unit test)
MID TERM EXAM

(I- Assignment)
MID TERM EXAM
ppt
Revision

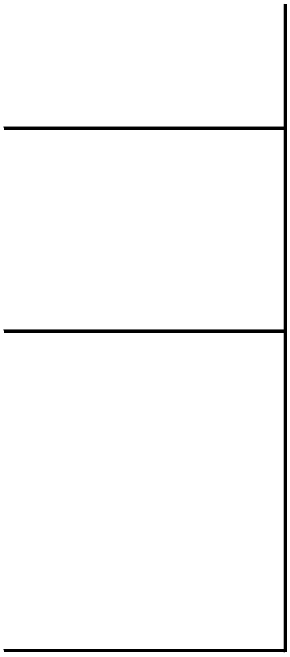
(I- Assignment)
PPT
MID TERM EXAM
REVISION

(I- Assignment)

MID TERM TEST

(II-Assingnment)

Revision



NAME OF THE COLLEGE- GOVT. COLLEGE, JIND ACADEMIC

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month
1	Dr. Anjana Dhawan	Computer Science
	PGDCA	July
		August
		September
		October
		November
2	Dr. Anjana Dhawan	Computer Science

	BCA Ist Year	July
		August
		September
		October
		November
3	Dr. Anjana Dhawan	Computer Science

	BCA 1st Sem	July
		August
		September
		October
		November
4	Dr. Anjana Dhawan	Computer Science

		PGDCA	October
			November
			November
5	Dr. Anjana Dhawan		Computer Science
			September
			October

	PGDCA	**November**
		December
		Jan
6	**Dr. Anjana Dhawan**	**Computer Science**
		September
	Basic IT Tools	October
		November

SUMMARY OF LESSON PLAN OF COLLEGE FACULTY

SESSION (2022-23)SEMESTER ODD FOR THE MONTH OF August TO jan 2023

Topic/ Chapters to be covered	**Academic activities to be organized**
Problem Through C	
C Character set, Tokens, keywords and identifiers, constants, variables, data types and preprocessors. C Operators: Arithmetic, relational, logical, bitwise, unary, assignment and conditional operators and their hierarchy.	
format specifiers, getch, getchar, getche, gets and puts. Formatted input and output using scanf and printf statements	
Types of control statements, if-else, nested if-else, else-if ladder, switch statement, conditional control statement (? :), loops: for, while and do- while, break, continue and go to.	
Types of control statements, if-else, nested if-else, else-if ladder, switch statement, conditional control statement (? :), loops: for, while and do- while, break, continue and go to.	
Arrays: Definition, types, initialization, processing an array, passing arrays to functions, dynamic arrays. String handling, reading and writing strings, string	
REVISION	
Software Project Management	
Theoretical foundations for software metrics, Introduction to the measurement theory, Data	

collection and analysis, Classification of software measures, Application of software metrics Software reliability measures and models, Measuring the software development and maintenance processes, Experimental design and analysis, Software metrics validation, Predication systems	
Model of CBIS. Information systems organization: Trend to End-User computing, justifying the CBIS, Achieving the CBIS, Managing the CBIS, Benefits & Challenges of CBIS implementation.	
Calibration and validation of prediction systems, Overview of mature software processes and project management, Role of TQM in software project management, cost and effort estimates, Overall and detailed scheduling	
Quality management, Defect estimation and prevention, Risk management , logging and tracking defects, project management plans, configuration management, project reviews for better project execution, Overcoming the Not Around Here (NAH) syndrome	
Project tracking (including defect tracking, status reports, milestone analysis), defect analysis and prevention (plus Pareto and causal analysis), Process monitoring and audit, Project closure analysis	
Revision	
Web Designing	
The Internet and its Advantages disadvantages, Basic Internet Protocols, World	

Wide Web, URL, Web Page, Web Browser, Web Servers, Client-Server model, FTP, Telnet, Search Engine. Mark Up Languages: Introduction to HyperText Markup Language (HTML), Elements, Lists, Tables, Linking documents, Frames, Forms, Creating HTML pages	
Cascading Style Sheets: Features, Core Syntax, Types, Style Sheets and HTML, StyleRules -Cascading and Inheritance, Text Properties, CSS Box Model, Normal Flow, Box Layout, Positioning and other useful-Style Properties.	
Introduction to JavaScript, Perspective, Basic Syntax, Data Types, Variables Statements, Operators, Literals, Control statements, Functions, Arrays, Document Object Model, Built-in Objects.	
Revision of Structure and Syntax of XML, Well Formed XML, DTD and its Structure, Namespaces and Data Typing in XML, Transforming XML Documents. XPATH	
Relation between XML, HTML, SGML, Goals of XML, Structure and Syntax of XML, Well Formed XML, DTD and its Structure, Namespaces and Data Typing in XML, Transforming XML Documents. XPATH	
Basic IT Tools	
Introduction to Computer: Computer and Latest IT gadgets, Evolution of Computers & its applicationBasics of Hardware and Software, Application Software, Systems Software, Utility Software. Central ProcessUnit, Input devices, Output devices, Computer Memory &	
Introduction to Operating System, Functions of the	

Operating system, Operating Systems for Desktop and Laptop, Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application, Operating	
Process Planning, Effort Estimation: uncertainties in effort estimation, building effort estimation models, COCOMO model, Project Scheduling and Staffing, Software configuration management plan, Quality Plan, Risk Management, Project Monitoring Plan	
Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Network Topology, Internet, Applications of Internet, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.), Popular Engines, E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail, replying to an E-mail message, forwarding an E-mail message, searching emails, Attaching files with email, Email Signature. Social Networking: Facebook, Twitter, LinkedIn, Instagram, Instant Messaging (WhatsApp, Facebook Messenger, Telegram), Introduction to Blogs, Digital Locker	
LAB (C- LANGUAGE)	
PROGRAM 1	
PROGRAM 2	
PROGRAM 3	
PROGRAM 4	
PROGRAM 5	
PROGRAM 6	
PROGRAM 7	
PROGRAM 8	
PROGRAM 9	
REVISION	
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PROGRAM 22	
PROGRAM 23	
PROGRAM 24	
PROGRAM 25	
REVISION	
LAB (Basic IT TOOLS)	
Ms Word, Excel,PPT,Windows	
Introduction to Internet and World Wide Web, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome	
Revision	

Topic of Assignments/ Tests to be given
(I- Assignment)
(unit test)
(II-Assingnment)

(I- Assignment)
(unit test)
(II-Assingnment)
Revision

(I- Assignment)

(unit test)

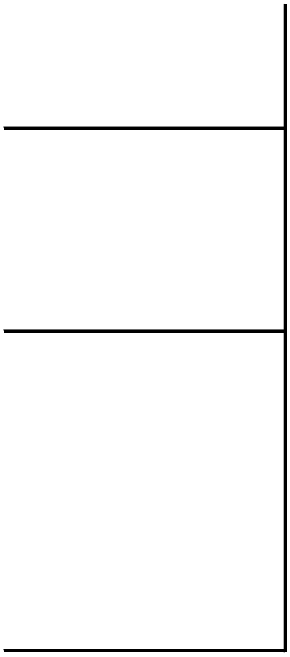
(II-Assingnment)

(I- Assignment)

(unit test)

(II-Assingnment)

Revision



GOVT. COLLEGE, JIND
2023-24

SUMMARY OF LESSON PLAN OF COLLEGE FACULTY

Name of Faculty: Ms. Poonam (Extension Lecturer)
Department: Computer Science

Class: B.A 1st Sem Section: A & C Assignment & Midterm Test: Second Week of October	Subject: Fundamentals of Computer Science (B23-MDC1)

September: Computer Fundamentals: Evolution of Computers through generations, Characteristics of Computers, Strengths and Limitations of Computers, Classification of Computers, Functional Components of a Computer System, Applications of computers in Various Fields. Types of Software: System software, Application software, Utility Software.

Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity, access time, concept of memory hierarchy. Primary Memory - RAM, ROM, PROM, EPROM. Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.

October: I/O Devices: I/O Ports of a Desk Top Computer, Device Controller, Device Driver. Input Devices: classification and use, keyboard, pointing devices - mouse, touch pad and track ball, joystick, magnetic stripes, scanner, digital camera, and microphone Output Devices: speaker, monitor, printers: classification, laser, ink jet, dotmatrix. Plotter. Introduction to Operating System: Definition, Functions, Features of Operating System, Icon, Folder, File, Start Button, Task Bar, Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.

November: The Internet: Introduction to networks and internet, history, Internet, Working of the Internet, Modes of Connecting to Internet. Electronic Mail: Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses, message components, message composition, mailer features. Browsers and search engines.

Class: B.Sc. 1st Sem Section: C	Subject: Logical Organization of Computer B23-CC-C1 Assignment & Midterm Test: Second Week of October

July& August: Number Systems: Binary, Octal, Hexadecimal etc. Conversions from one number system to another, BCD Number System. BCD Codes: Natural Binary Code, Weighted Code, Self-Complimenting Code, Cyclic Code. Error Detecting and Correcting Codes. Character representations: ASCII, EBCDIC and Unicode. Number Representations: Integer numbers - sign-magnitude, 1's & 2's complement representation. Real Numbers normalized floating point representations.

September: Binary Arithmetic: Binary Addition, Binary Subtraction, Binary Multiplication, Binary Division using 1's and 2's Compliment representations, Addition and subtraction with BCD representations. Boolean Algebra: Boolean Algebra Postulates, basic Boolean Theorems, Boolean Expressions, Boolean Functions, Truth Tables, Canonical Representation of Boolean Expressions: SOP and POS, Simplification of Boolean Expressions using Boolean Postulates & Theorems, Kaurnaugh-Maps (upto four variables), Handling Don't Care conditions.

October: Logic Gates: Basic Logic Gates – AND, OR, NOT, Universal Gates – NAND, NOR, Other Gates – XOR, XNOR etc. Their symbols, truth tables and Boolean expressions. Combinational Circuits: Design Procedures, Half Adder, Full Adder, Half Subtractor, Full Subtracor, Multiplexers, Demultiplexers, Decoder, Encoder, Comparators, Code Converters.

November: Sequential Circuits: Basic Flip- Flops and their working. Synchronous and Asynchronous Flip –Flops, Triggering of Flip-Flops, Clocked RS, D Type, JK, T type and Master-Slave Flip-Flops. State Table, State Diagram and State Equations.Flip-flops characteristics & Excitation Tables.Sequential Circuits: Designing registers –Serial-In Serial-Out (SISO), Serial-In Parallel-Out (SIPO), Parallel-In Serial-Out (PISO) Parallel-In Parallel-Out (PIPO) and shift registers

GOVT. COLLEGE, JIND
2023-24

Class: B.Sc. 1st Sem Section: Assignment & Midterm Test: Second Week of October	Subject: Basics of Computer Science B23-CC-M1
July& August: Introduction to Computers: Definition of Computers, History and Generations of Computers, Characteristics of computer, Classification of Computers. Fundamental Block diagram of Computer: CPU, Input & Output Unit. **September:** Software: Definition of Software, Types of Software-System software, Application software and Utility software. Types of Computer Languages, Assemblers, Interpreters, Compiler. **October:** Introduction to OperatingSystems: Types of Operating System, Functions of Operating System. Windows: Introduction to Windows, Starting Windows, Desk Top, Task Bar, Opening and closing applications, icons- creating, renaming and removing. Date and Time setting, Working with files and folders-creating, deleting, opening, finding, copying, moving, and renaming. **November:**Networking: Concept, Basic Elements of a Communication System, Data Transmission Media, LAN, MAN, WAN. Introduction of Internet and WWW, Basic working of a Web Browser, Introduction to popular web browsers.	
Class: BCA 3rd Subject: BCA-19-35Computer Oriented Optimization Techniques	Test: Second Week of October Assignment: 1st :First Week of October 2nd: Last Week of November
July & August: Introduction: The Historical development, Nature, Meaning and Management Application of Operations research. Modelling, Its Principal and Approximation of O.R.Models, Main characteristic and phases, General Methods of solving models, Scientific Methods, Scope, Role on Decision Making and Development of Operation Research.Linear Programming: Formulation, Graphical solution, standard and matrix form of linear programming problems, Simplex method and its flow chart, Two-phase Simplex method, Degeneracy. **September:**Assignment Models: Formulation of problem, Hungarian Method for Assignment Problems, Unbalanced Assignment Problems, Restricted Assignment Problems, Travelling Salesman Problem. Transportation Problem : North West Corner Rule, Row Minima, Column Minima, Lowest Cost Entry, Vogel Approximation method, MODI Method, Degeneracy, Unbalanced and Restricted Transportation Problems, Transhipment Problems. **October:**PERT and CPM: Basic steps in PERT/CPM, Techniques, Network Diagram Representation, Forward and Backward Pass-computation, Representation in Tabular form, Determination of Critical path, Critical activity, Difference between CPM and PERT, Floats and Slack Times. **November:**Dynamic Programming : Developing Optimal Decision Policy, Dynamic Programming underCertainity: Shortest Route Problem, Multiplicative Separable Return Function and Single Additive Constraint, Additive Separable Return Function and Single Additive Constraint, Additively Separable Return Function and Single Multiplicative Constraint.	
Class: BCA 5th Subject:BCA-19-51 Computer Graphics Test: Second Week of October	Assignment: 1st :First Week of October 2nd: Last Week of November
July& August: Introduction: Survey of Computer Graphics and its applications, Components and working of Interactive Graphics, Display Processors;Graphic Devices: Raster scan and Random Scan displays, Resolution, Aspect Ratio, Refresh CRT, Color CRT monitors, LookUp tables, Plasma Panel and LCD monitors, interlacing, grey shades; Interactive Input Devices: keyboard, mouse, trackball, joystick, light pen, digitizing tablet, image scanners, voice system; Hard Copy Devices: printers, plotters; **September:** Drawing Geometry: Coordinate Systems; Output Primitives: symmetrical and simple DDA line drawing algorithm, Bresenham's line drawing, loading frame buffer; symmetrical DDA for	

GOVT. COLLEGE, JIND
2023-24

<table>
<tr><td colspan="3">drawing circle, Polynomial method for circle drawing; circle drawing using polar coordinates, Bresenham's circle drawing; generation of ellipse;
October: 2-D Transformations: translation, rotation, scaling, matrix representations and homogeneous coordinates, composite transformations, general pivot point rotation, general fixed point scaling, shearing; reflection about X Axis and Y Axis; Reflection about Straight lines;, Reflection through an Arbitrary Line
November: 2-D Viewing: window, viewport; 2-D viewing transformation, zooming, panning; Clipping operations: point and line clipping, Cohen-Sutherland line clipping, mid-point subdivision line clipping, Liang-Barsky line clipping, Sutherland-Hodgman polygon clipping</td></tr>
<tr><td colspan="2">Class: B.A 1st Sem
Section: A & C
Group: A & B</td><td>Subject: Fundamentals of Computer Science (B23-MDC1)
Implementation and Viva: 2nd Week of October</td></tr>
<tr><td>September:
October:
November:</td><td colspan="2">Program 1-6
Program 7-12
Program 13-15</td></tr>
<tr><td colspan="2">Class: B.Sc. 1st Sem
Section: C
Group: A & B</td><td>Subject: Logical Organization of Computer B23-CC-C1
Implementation and Viva: 2nd Week of October</td></tr>
<tr><td>July & August:
September:
October:
November:</td><td colspan="2">Program 1-4
Program 5-8
Program 9-12
Program 13-15</td></tr>
<tr><td colspan="2">Class: B.Sc. 1st Sem
Section: Minor
Group: A & B</td><td>Subject: Basics of Computer Science B23-CC-M1
Implementation and Viva: 2nd Week of October</td></tr>
<tr><td>July & August:
September:
October:
November:</td><td colspan="2">Program 1-4
Program 5-8
Program 9-12
Program 13-15</td></tr>
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SUMMARY OF LESSON PLAN OF COLLEGE FACULTY

NAME OF THE COLLEGE- GOVT. COLLEGE, JIND ACADEMIC SESSION 2023-24 ODD SEMESTER FOR THE MONTH OF JULY TO NOV 2023-24

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month	Topic/ Chapters to be covered	Academic activities to be organized	Topic of Assignments/ Tests to be given
1	**Mr.Manoj Chahal**	**Computer Science**	**MDC-Section-B&C**		
	BA gen &hons 1st year	From July & Aug	Computer Fundamentals: Evolution of Computers through generations,		
			Characteristics of Computers, Strengths and Limitations of Computers,		
			Classification of Computers, Functional Components of a Computer System, Applications of computers in Various Fields.		
			Types of Software: System software, Application software, Utility Software		
		Last week of Aug			(I- Assignment)
		Sept	Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity, access time, concept of memory hierarchy.		
			Primary Memory - RAM, ROM, PROM, EPROM. Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.		
			I/O Devices: I/O Ports of a Desk Top Computer, Device Controller, Device Driver. Input Devices: classification and use, keyboard, pointing devices - mouse, touch pad and track ball, joystick, magnetic stripes, scanner, digital camera, and microphone		
			Output Devices: speaker, monitor, printers: classification, laser, ink jet, dotmatrix. Plotter		
		Second week of Oct			(Unit Test)
		Oct	Introduction to Operating System: Definition, Functions, Features of Operating System,		
			Icon, Folder, File, Start Button, Task Bar,		
			Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer,		
			My Documents, Windows Explorer, Control Panel.		
		First week of Nov			Extra Assignment
		Nov	The Internet: Introduction to networks and internet, history, Internet, Working of the Internet		
			, Modes of Connecting to Internet. Electronic Mail: Introduction, advantages and disadvantages,		
			User Ids, Passwords, e-mail addresses, message components, message composition, mailer		

			features. Browsers and search engines.		
			Revision		
2	**Mr.Manoj Chahal**	**Computer Science**	**BCA 19-55-2 Node JS**		
	BCA 5th Sem	From July & Aug	Functions, Buffer, Module, Module Types, Core Modules		
			Local Modules, Module Experts Node Packet Manager, Installing Packages Locally		
			Adding dependency in Packages, Installing Packages Globally, Updating packages. Creating Web Server		
			Handling http requests, sending requests.		
		Last week of Aug			(I- Assignment)
		Sept	Files, reading, writing, updating files		
			the concept of chunks, buffers, and uploading files synchronously and asynchronously		
			debug Node JS application, events in Node JS		
			the significance of the events, writing own events, event emitter class, inhering events		
		Second week of Oct			(Unit Test)
		Oct	To use express framework to create web applications		
			Configuring Routes, Working with Express		
			How to serve Static HTML pages to the browser		
			serving other file formats and restricting certain files		
		First week of Nov			(II Assignment)
		Nov	Database Connectivity: Connection String, Configuring, Working with Select command, Updating and Deleting the Records.		
			Template Engines: How to use template engines to perform two way data binding		
			appending dynamic data to the webpage and different view engines and their syntax		
			Revision		
3	**Mr.Manoj Chahal**		**BCA 19-56-2 Android Programming**		
	BCA 5th Sem	From July & Aug	Introduction: mobility and mobile platforms, Android overview, Setting up Development environment		
			Mobile OS architectures of android, iOS and Windows, Android App project structure		
			Setting up an Android Virtual Device (AVD) or Emulator		
			Logical components of an Android App., Tool repository, installing and running App devices		
		Last week of Aug			1- Assignment
			Building Blocks: Activity- states and life cycle of an Activity		
			User Interface resources, events, interaction among Activities		

		Sept			
			working with Threads, Services- states and life cycle, Notifications		
			Broadcast receivers, Telephony and SMS APIs,		
		Second week of Oct			Unit Test
		Oct	App data handling - Flat Files, shared preferences		
			Relational data- SQLiteDatabase, Graphics and animations		
			custom views, canvas, animation APIs, Multimedia- audio/video playback		
			record, location services and maps, Sensors		
		First week of Nov			2- Assignment
		Nov	Testing Mobile Application: debugging mobile application		
			White box testing, black box testing, and test automation of mobile apps		
			JUnit for android, Signing and packaging mobile apps, Distributing apps on market place.		
			Revision		
4	**Mr.Manoj Chahal**		**Android Programming Lab**		
	BCA 5th Sem(G1 &G2)	From July & Aug	Program 1		
			Program 2		
			Program 3		
			Program 4		
		Last week of Aug			1- Pratical Assignment
		Sept	Program 5		
			Program 6		
			Program 7		
			Program 8		
		Second week of Oct			Pratical implementation test and Viva
		Oct	Program 9		
			Program 10		
			Program 11		
			Program 12		
		First week of Nov			2- Pratical Assignment
		Nov	Program 13		
			Program 14		
			Program 15		
5	**Mr.Manoj Chahal**		**Node Js Lab**		
	BCA 5th Sem(G1 & G2)	From July & Aug	Program 1		
			Program 2		
			Program 3		
			Program 4		
		Last week of Aug			1- Pratical Assignment
		Sept	Program 5		
			Program 6		
			Program 7		
			Program 8		
		Second week of Oct			Pratical implementation test and Viva
			Program 9		

		Oct	Program 10		
			Program 11		
			Program 12		
		First week of Nov			2- Pratical Assignment
		Nov	Program 13		
			Program 14		
			Program 15		
6	**Mr.Manoj Chahal**		**Seminar**		
	BCA 5th Sem	From July & Aug	Presentation		
			Presentation		
			Presentation		
			Presentation		
		Last week of Aug			1- Group Disscussion
		Sept	Presentation		
			Presentation		
			Presentation		
			Presentation		
		Second week of Oct			2-Group Disscussion
		Oct	Presentation		
			Presentation		
			Presentation		
			Presentation		
		First week of Nov	Presentation		
		Nov	Presentation		
			Presentation		
					3-Group Disscussion

NAME OF THE COLLEGE- GOVT. COLLEGE, JIND AC

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month
1	Dr. Pushpa Rani	Computer Science
	PGDCA	August
		September
		October
		November

2	**Dr. Pushpa Rani**	**Computer Science**
	BCA 2nd Year	**July**
		August
		September
		October
		November
3	**Dr. Pushpa Rani**	**Computer Science**

	B.A 1st Yr.	October
		November
		November
4	Dr. PUSHPA RANI	Computer Science
	PGDCA	September
		October
		November

6	**Dr. Pushpa Rani**	**Computer Science**
	Basic IT Tools	**September**
		October
		November

SUMMARY OF LESSON PLAN OF COLLEGE FACULTY

CADEMIC SESSION (2023-24)SEMESTER ODD FOR THE MONTH OF July TO November 2023

Topic/ Chapters to be covered	**Academic activities to be organized**
PC Software	
Word Processing with Microsoft Word: Word Processing, MS Word, Creating and saving a document, Opening a document, Inserting, selecting, copying, moving, deleting and pasting, text,Undoing ,redoing, Applying bold, italic, underline style on text, changing size, color and font of text, using Format painter, aligning text, Formatting paragraphs: Line spacing, paragraph indents, space before and after paragraph, using bullets and numbering in paragraphs, Spelling and grammar, Autocorrect, inserting page number, page break, header and footer, border and shading, inserting picture, shapes and screenshot, using Mail merge.	
Starting MS Excel, Workbook and Worksheet or Spreadsheet, Aligning and formatting data in cells, Cell range, Functions (Math, Financial and Text) , AutoSum, inserting/deleting rows, columns and cells, Merge and center, creating charts (column, line, pie,bar), changing column width and row height, using IF() function, Sorting data, Filtering data.	
Starting PowerPoint, Creating New Presentation, adding slides, Entering/Editing Text in Slides, Formatting text and paragraph, inserting a picture, Clip Art and Screenshot, Inserting Chart, Shapes, Word Art, Text Box, Inserting table, PowerPoint Views,Slideshow, Slide Transition Effects, Inserting Video and Audio, Printing Presentation Slides	
Starting Access, Creating database, creating a Table, inserting a new Record,deleting records, sorting and filtering records, Repositioning and renaming a Field, deleting a Field, Primary Key, Relationship between tables, Query Wizard, Form Tool, Report Tool	
REVISION	

Operating System	
Operating System Services, System Calls, System Programs, Process concepts, Process operations, Interprocess Communication, Scheduling Criteria, Scheduling Algorithms, Comparative Study of Scheduling Algorithms.	
Critical Section Problem, Semaphores, Classical Process Co-ordination Problems and their Solutions, Monitors, Synchronization Examples. Deadlocks: Deadlock Characterization, Deadlock Prevention and Avoidance, Deadlock detection and Recovery.	
Swapping, Paging, Segmentation, Virtual Memory Concepts: Demand Paging, Page Replacement Algorithms, Thrashing, Storage Management: File Concepts, File Access and Allocation Methods.	
Disk Structure, Disk Scheduling algorithm: FCFS, SSTF, SCAN, LOOK, C-SCAN, C-LOOK. Protection & Security: Goals & Principles of Protection, Domains of Protection, Access Matrix, Access Controls. Security: Security problem, Threats, Security tools, Classification.	
Revision	
Basic IT Tools	
Introduction to Computer: Computer and Latest IT gadgets, Evolution of Computers & its applicationBasics of Hardware and Software, Application Software, Systems Software, Utility Software. Central ProcessUnit, Input devices, Output devices, Computer Memory & storage, Mobile	
Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop, Operating Systems for Mobile Phone and Tablets, User	

Laptop, Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application, Operating System Simple	
Process Planning, Effort Estimation: uncertainties in effort estimation, building effort estimation models, COCOMO model, Project Scheduling and Staffing, Software configuration management plan, Quality Plan, Risk Management, Project Monitoring Plan	
Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Network Topology, Internet, Applications of Internet, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.), Popular Engines, E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail, replying to an E-mail message, forwarding an E-mail message, searching emails, Attaching files with email, Email Signature. Social Networking: Facebook, Twitter, LinkedIn, Instagram, Instant Messaging (WhatsApp, Facebook Messenger, Telegram), Introduction to Blogs, Digital Locker	
LAB (PC SOFTWARE)	
MS. Word	
Ms. Excell	
REVISION	
Ms. Powerpoint, Ms Access	

LAB (Basic IT TOOLS)	
Ms Word, Excel,PPT,Windows	
Introduction to Internet and World Wide Web, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome	
Revision	

Topic of Assignments/ Tests to be given
(I- Assignment)
(unit test)
(II-Assingnment)

(I- Assignment)

(unit test)

(II-Assingnment)

(I- Assignment)

(I- Assignment)

(unit test)

(II-Assingnment)

Revision

SUMMARY OF LESSON PLAN OF COLLEGE FACULTY					
NAME OF THE COLLEGE- GOVT. COLLEGE, JIND ACADEMIC SESSION 2023-24 ODD SEMESTER FOR THE MONTH OF JULY TO DEC 2023-24					
Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month	Topic/ Chapters to be covered	Academic activities to be organized	Topic of Assignments/ Tests to be given
1	**Mrs. SHARMILA DEVI**	**Computer Science**	**DATA STRUCTURE**		
	B.Sc 3rd SEM	JULY-AUG	Introduction: Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures, Data structure operations, Applications of data structures,		
		SEPTEMBER	Algorithms, Algorithms complexity and time-space tradeoff, Big-O notation. Strings: Introduction, strings, String operations, Pattern matching algorithms, Arrays: Introduction of Array.Linear arrays, Representation of linear array in memory, Traversal, Insertions		
		First week of October			(I- Assignment)
		OCTOBER	Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix. Linked List: Introduction,Array vs. linked list, Representation of linked lists in memory, Traversal,Insertion, Deletion, Searching in a linked list, Header linked list		

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month	Topic/ Chapters to be covered	Academic activities to be organized	Topic of Assignments/ Tests to be given
		Second week of OCT			(Unit Test)
		NOVEMBER	Circular linked list, Two-way linked list, Garbage collection, Applications of linked lists. Algorithm of insertion/ deletion in SLL. Stack: primitive operation on stack, algorithms for push and pop. Representation of Stack, Linked List and Queue		
		First week of NOV			(II- Assignment)
		DECEMBER	Trees - Basic Terminology, representation, Binary Trees, Tree Representations using Array & Linked List, Basic operation on Binary tree		
2	**Mrs. SHARMILA DEVI**	**Computer Science**	**SOFTWARE ENGINEERING**		
	BCA 5th Sem	July-Aug	Software crisis, Software engineeringApproach and Challenges, Software development process models: Waterfall, Rapid prototyping, Time		
		First week of Sep			(I- Assignment)

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month	Topic/ Chapters to be covered	Academic activities to be organized	Topic of Assignments/ Tests to be given
		SEP	Requirement Analysis: Software Requirements, Problem Analysis, Requirement Specification: characteristics, components and structure of SRS document, functional and non functional requirements, Functional specification with use		
		Second week of OCT			(Unit Test)
		OCT	Process Planning, Effort Estimation: uncertainties in effort estimation, building effort estimation models, COCOMO model, Project Scheduling and		
		First week of Dec			(II Assignment)
		NOV-Dec	Function Oriented Design: Design Principles, Module level concepts, design notations and specification,		
			Revision		
3	**Mrs. SHARMILA DEVI**		**CLOUD COMPUTING**		
	BCA 5th Sem	July-Aug	Introduction, Layers and Types of Cloud, Features of Cloud, Infrastructure as a Service, Platform as a Service, Software as a Service.		
		First week of Sep			1- Assignment
		SEP	Broad Approaches of Migrating to a Cloud, Seven Step Model of Migration into a Cloud. The Onset of Knowledge Era, Evolution of SaaS, Challenges of SaaS Paradigm, Approaching the SaaS integration Enigma, New		

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		Second week of OCT			Unit Test
		OCT	Issues of Enterprise Applications on Cloud, Transition Challenges, Enterprise Cloud Technology and Market Evolution, Business Drivers towards marketplace for Enterprise Cloud Computing, Cloud Supply Chain, Virtual Machine, Provisioning and Manageability, Virtual Machine Migration Services, Anatomy of Cloud Infrastructure, Distributed Management of Virtual Infrastructure.		
		First week of NOV			2- Assignment
		NOV-DEC	Scheduling Techniques of Advanced Reservation of Capacity, Capacity Management to meet SLA Commitments. Logical Design of Cluster as a Service, Cloud Storage from LAN to WAN, Technologies for Data Security in Cloud. Integration of Private and Public Cloud, Resource Provisioning Service, Hybrid Cloud Implementation, Importance of Quality and Security in Cloud, Business Ready Dynamic Data Centre, Dynamic ICT Services. Workflow Management System and Clouds, Utilizing Clouds for Workflow Execution		
			REVISION		

4	**Mrs. SHARMILA DEVI**	**Computer Science**	**DATA STRUCTURE LAB**		
	Bsc 3rd sem	Aug	Program 1		
			Program 2		
		Sep	Program 3		
			Program 4		
			Program 5		
		Oct	Program 6		
			Program 7		
			Program 8		
		Nov	Program 9		
			Program 10		
			Program 11		
		Dec	Program 12		
			Program 13		
			Program 14		
			practice and viva		
5	**Mrs. SHARMILA DEVI**	**Computer Science**	**DATA WAREHOUSE**		
		JULY-AUG	Introduction to Data Warehouse, Data Warehouse Delivery Methods,System Process : Typical Process Flow within a Data Warehouse, Extract		

Sr. NO	Name of the Assistant / Associate Professor / Class	Subject/week/ month	Topic/ Chapters to be covered	Academic activities to be organized	Topic of Assignments/ Tests to be given
			and Load Process,		
		Sep	Clean and Transform Data, Backup and Archive Process, Query Management Process. Process Architecture: Load Manager, Warehouse Manager, Query Manager, Detailed		
		First week of oct			(I- Assignment)
		Oct	Database Schema: Starflake Schema, Snowflake Schema, Fact Constellation Schema, Identifying facts and dimensions, Designing Fact Tables, Designing Dimension Table, Designing various schema, Query Redirection		
	BCA 5th Sem	Second week of Nov			(Unit Test) II- Assignment
		Nov	Partitioning Strategy: Horizontal Partitioning, Vertical Partitioning, Hardware Partitioning, Sizing the partition.Aggregations: Need of Aggregation, designing, Data Marting: Introduction, Need of Data Mart, Design of Data Mart, Cost of Data Mart. Metadata: Data Transformation and Load, Data management, Query Generation, Metadata and tools.Process Managers:		
		Dec	Need of tools to managedata warehouse, system managers, data warehouse process managers, load manager, warehouse manager, query manager.		