Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	**NISHA RANI**
Department	**COMPUTER SCIENCE**
Class & Section	**BCA 1ST SEM**
Subject and Code	**Logical Organization of Computers-I,BCA-114**
Semester Duration	**1st September 2022 - 24th December 2022**

Topics

1st September 2022 - 15th September 2022

Information Representation: Number Systems, Binary Arithmetic, Fixed-point and Floating-point representation of numbers

16th September 2022 - 30th September 2022

BCD Codes, Error detecting and correcting codes, Character Representation – ASCII, EBCDIC.

1st October 2022 - 15th October 2022

Binary Logic: Boolean Algebra, Boolean Theorems, Boolean Functions and Truth Tables

16th October 2022 - 31st October 2022

Canonical and Standard forms of Boolean functions, Simplification of Boolean Functions–Venn Diagram, Karnaugh Maps.

1st November 2022 - 15th November 2022
Digital Logic: Basic Gates – AND, OR, NOT, Universal Gates – NAND, NOR, Other Gates – XOR, XNOR etc.

16th November 2022 - 30th November 2022
Implementations of digital circuits, Combinational Logic – Characteristics, Design Procedures, analysis procedures.
1st December 2022 - 15th December 2022
Combinational Circuits: Half-Adder, Full-Adder, Half-Subtractor, Full-Subtractor, Encoders
16th December 2022 - 24th December 2022
Decoders, Multiplexers, Demultiplexers, Comparators, Code Converters.

Note:-
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Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	**NISHA RANI**
Department	**COMPUTER SCIENCE**
Class & Section	**BCA 3RD SEM**
Subject and Code	**OBJECT ORIENTED PROGRAMMING USING 'C++' ,BCA-231**
Semester Duration	**1st September 2022 - 24th December 2022**

Topics

1st September 2022 - 15th September 2022

Object oriented Programming: Object-Oriented programming features and benefits. Object-Oriented features of C++, Class and Objects, Data Hiding & Encapsulation, Structures

16th September 2022 - 30th September 2022

Data members and Member functions, Scope resolution operator and its significance, Static Data Members, Static member functions, Nested and Local Class, Accessing Members of Class and Structure.

1st October 2022 - 15th October 2022

Constructor, Initialization using constructor, types of constructor– Default, Parameterized & Copy Constructors, Constructor overloading

16th October 2022 - 31st October 2022

Default Values to Parameters,Destructors, Console I/O: Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations.

1st November 2022 - 15th November 2022
Manipulators, Friend Function, Friend Class, Arrays, Array of Objects, Passing and Returning Objects to Functions, String Handling in C++

16th November 2022 - 30th November 2022
Dynamic Memory Management: Pointers, new and delete Operator, Array of Pointers to Objects, this Pointer, Passing Parameters to Functions by Reference & pointers.
1st December 2022 - 15th December 2022
Polymorphism: Operators in C++, Precedence and Associativity Rules, Operator Overloading
16th December 2022 - 24th December 2022
Unary & Binary Operators Overloading, Function Overloading, Inline Functions
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Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	**NISHA RANI**
Department	**COMPUTER SCIENCE**
Class & Section	**BCA 3TH SEM**
Subject and Code	**FUNDAMENTALS OF DATABASE SYSTEM,BCA-235**
Semester Duration	**1st September 2022 - 24th December 2022**

Topics

1st September 2022 - 15th September 2022

Basic Concepts – Data, Information, Records and files. Traditional file –based Systems-File Based Approach-Limitations of File Based Approach, Database Approach-Characteristics of Database Approach,Database Management System (DBMS)

16th September 2022 - 30th September 2022

Components of DBMS Environment,DBMS Functions and Components, Advantages and Disadvantages of DBMS, Roles in the Database Environment - Data and Database Administrator, Database Designers, Applications Developers and Users.

1st October 2022 - 15th October 2022

Database System Architecture – Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances,

16th October 2022 - 31st October 2022

Data Independence – Logical and Physical Data Independence, Classification of Database Management System, Centralized and Client Server architecture to DBMS.

1st November 2022 - 15th November 2022
Data Models: Records- based Data Models, Object-based Data Models, Physical Data Models and Conceptual Modeling

16th November 2022 - 30th November 2022
Entity-Relationship Model – Entity Types, Entity Sets, Attributes Relationship Types, Relationship Instances and ER Diagrams.
1st December 2022 - 15th December 2022
Relational Data Model:-Brief History, Terminology in Relational Data Structure, Relations, Properties of Relations
16th December 2022 - 24th December 2022
Keys, Domains, Integrity Constraints over Relations, Base Tables and Views, Basic Concepts of Hierarchical and Network Data Model
Note:- The teaching of topics to the students on the duration mentioned above may not be exactly followed and may have little variations/fluctuations because of some unforeseen circumstances. For example: various Functions/Activities organized by the College (Musical Meet, Blood Donation, Important Days Celebrations, Co-Curricular/Extra-curricular Activities etc.), Response of Students in the Class, Request of Students for Repetition of some specific Topics, Practical Examinations, Unpredicted Leaves, Restricted Holidays etc.

Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	**NISHA RANI**
Department	**COMPUTER SCIENCE**
Class & Section	**BCA 5TH SEM**
Subject and Code	**WEB DESIGNING FUNDAMENTALS, BCA-351**
Semester Duration	**1st September 2022 - 24th December 2022**

Topics

1st September 2022 - 15th September 2022

Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic Features; Web Browsers; Web Servers

16th September 2022 - 30th September 2022

Hypertext Transfer Protocol; URLs; Searching and Web-Casting Techniques; Search Engines and Search Tools

1st October 2022 - 15th October 2022

Steps for Developing Website; Choosing the Contents; Home Page; Domain Names; Internet Service Provider

16th October 2022 - 31st October 2022

Planning and Designing Web Site; Creating a Website; Web Publishing: Hosting Site

1st November 2022 - 15th November 2022
Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line, Creating Links; Headers

16th November 2022 - 30th November 2022
Text Styles; Text Structuring; Text Colors and Background; Formatting Text; Page layouts; Insertion of Text, Movement of Text
1st December 2022 - 15th December 2022
Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists; Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours
16th December 2022 - 24th December 2022
Frame Creation and Layouts; Working with Forms and Menus; Working with Buttons like Radio,Check Box

Note:-

The teaching of topics to the students on the duration mentioned above may not be exactly followed and may have little variations/fluctuations because of some unforeseen circumstances. For example: various Functions/Activities organized by the College (Musical Meet, Blood Donation, Important Days Celebrations, Co-Curricular/Extra-curricular Activities etc.), Response of Students in the Class, Request of Students for Repetition of some specific Topics, Practical Examinations, Unpredicted Leaves, Restricted Holidays etc.

Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	NISHA RANI
Department	COMPUTER SCIENCE
Class & Section	BCOM CAV 5TH SEM
Subject and Code	WEB TECHNOLOGY, BC(Voc)-505
Semester Duration	1st September 2022 - 24th December 2022

Topics

1st September 2022 - 15th September 2022

Internet basic - introduction to HTML, tags- list - creating table - linking document frames

16th September 2022 - 30th September 2022

graphics to HTML doc - style sheet - style sheet basic - add style to document - creating style sheet rules

1st October 2022 - 15th October 2022

style sheet properties - font - text - list - color and background color - box - display properties

16th October 2022 - 31st October 2022

Introduction to Java Script - advantage of Java Script - JavaScript syntax - data type - variable

1st November 2022 - 15th November 2022
array - operator and expression - looping constructor - function - dialog box

16th November 2022 - 30th November 2022
Java Script document object model - introduction - object in HTML

1st December 2022 - 15th December 2022
event handling - window object - document object - browser object

16th December 2022 - 24th December 2022
form object - navigator object screen object - build in object - user defined object- cookies

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Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	**NISHA RANI**
Department	**COMPUTER SCIENCE**
Class & Section	**BCOM CAV 5TH SEM**
Subject and Code	**SYSTEM ANALYSIS & DESIGN, BC(Voc)-506**
Semester Duration	**1st September 2022 - 24th December 2022**

Topics

1st September 2022 - 15th September 2022

definition of system, characteristics, elements,types of system

16th September 2022 - 30th September 2022

system development lfe cycle; techno-economic feasibility

1st October 2022 - 15th October 2022

role of system analyst the process of logical and physical design

16th October 2022 - 31st October 2022

form design: input, output, form

1st November 2022 - 15th November 2022
system testing, auditing, system maintenance

16th November 2022 - 30th November 2022
threats to security,controlmeasures.
1st December 2022 - 15th December 2022
Revision of first half of syllabus
16th December 2022 - 24th December 2022
Revision of remaining syllabus

Note:-
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Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	**NISHA RANI**
Department	**COMPUTER SCIENCE**
Class & Section	**BA COMPUTER SCIENCE 5TH SEMESTER**
Subject and Code	**Paper-I: Fundamentals of Database Systems**
Semester Duration	**1st September 2022 - 24th December 2022**

Topics

1st September 2022 - 15th September 2022

Basic Concepts – Data, Information, Records and files. Traditional file Based Approach- Limitations of Traditional File Based Approach, Database Approach-Characteristics of Database Approach

16th September 2022 - 30th September 2022

Database Management System (DBMS), Components of DBMS Environment, DBMS Functions and Components, Advantages and Disadvantages of DBMS

1st October 2022 - 15th October 2022

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,

16th October 2022 - 31st October 2022

Database Languages – VDL, DDL, SDL, DML, SQL, Mappings – External/ Conceptual and Conceptual/Internal, Instances, Data Independence – Logical and Physical Data Independence

1st November 2022 - 15th November 2022
Data Models: High Level, Low Level and Representational – Records- based Data Models, Object-based Data Models, Physical Data Models and Conceptual Models.

16th November 2022 - 30th November 2022
Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships,Constraints, Keys , Degree, Cardinality etc. ER Diagrams of any Database Organization- Inventory System, Payroll System.
1st December 2022 - 15th December 2022
Reservation System, Online Book Store etc. Classification of Database Management System, Centralized and Client Server architecture.Relational Data Model:-Brief History, Terminology in Relational Data Structure
16th December 2022 - 24th December 2022
Relations, Properties of Relations, Keys – Primary, Secondary, Composite, Candidate, Alternate and Foreign Key, Domains, Integrity Constraints over Relations.

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Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	**NISHA RANI**
Department	**COMPUTER SCIENCE**
Class & Section	**BA 5TH SEM COMPUTER SCIENCE**
Subject and Code	**Paper-II: Web Designing**
Semester Duration	**1st September 2022 - 24th December 2022**

Topics

1st September 2022 - 15th September 2022

Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic Features; Web Browsers; Web Servers

16th September 2022 - 30th September 2022

Hypertext Transfer Protocol; URLs; Searching and Web-Casting Techniques; Search Engines and Search Tools

1st October 2022 - 15th October 2022

Steps for Developing Website; Choosing the Contents; Home Page; Domain Names; Internet Service Provider

16th October 2022 - 31st October 2022

Planning and Designing Web Site; Creating a Website; Web Publishing: Hosting Site

1st November 2022 - 15th November 2022
Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line, Creating Links; Headers

16th November 2022 - 30th November 2022
Text Styles; Text Structuring; Text Colors and Background; Formatting Text; Page layouts; Insertion of Text, Movement of Text

1st December 2022 - 15th December 2022
Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists; Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours

16th December 2022 - 24th December 2022
Frame Creation and Layouts; Working with Forms and Menus; Working with Buttons like Radio,Check Box

Note:-
The teaching of topics to the students on the duration mentioned above may not be exactly followed and may have little variations/fluctuations because of some unforeseen circumstances. For example: various Functions/Activities organized by the College (Musical Meet, Blood Donation, Important Days Celebrations, Co-Curricular/Extra-curricular Activities etc.), Response of Students in the Class, Request of Students for Repetition of some specific Topics, Practical Examinations, Unpredicted Leaves, Restricted Holidays etc.