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

Name of Techer	Mr. Amit Kumar
Department	Computer Science
Class & Section	BCA 5th Semester
Subject and Code	Multimedia Tools & BCA-356
Semester Duration	1st September 2022 - 24th December 2022

Topics

1st September 2022 - 15th September 2022

Multimedia: Basic Concept, Definition, Components & Applications of Multimedia; Hypermedia and
Multimedia; Multimedia Hardware and Software; Multimedia Software Tools; Presentation Tools;
Multimedia Authoring: Introduction, Features

16th September 2022 - 30th September 2022

Types of Authoring Tools: Card or Page-Based, Icon- Based, Time-Based, Object-Oriented; VRML: History, Features

1st October 2022 - 15th October 2022

Images: Graphics/Image Data Types, File Formats; Color Models in Images and Video; Video: Introduction, Types of Video Signals;

16th October 2022 - 31st October 2022

Analog and Digital Video; Analog Video Standards:
NTSC, PAL, SECA; Digital Video Standards: Chroma Subsampling, CCIR Standards, HDTV

1st November 2022 - 15th November 2022
Digital Audio: Basic Concepts, Analog vs. Digital Audio, Digitization of Sound; Digital Audio File Formats, MIDI

16th November 2022 - 30th November 2022
Quantization and Transmission of Audio: Coding of Audio; Pulse Code Modulation; Differential Coding of Audio; Lossless Predictive Coding; DPCM; DM; ADPCM
1st December 2022 - 15th December 2022
Compression Techniques: Introduction, Types of Data Compression, Run-Length Coding, Variable- Length Coding, Dictionary-Based Coding, Transform Coding
16th December 2022 - 24th December 2022
Image and Video Compression Techniques: JPEG Standard for Image Compression; JPEG Mode, Video Compression Techniques: H.261, H.263, MPEG
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Govt. College, Aharwala (Bilaspur) -Yamuna Nagar
Lesson Plan (2022-23) [Odd Semester]

Name of Techer	Mr. Amit Kumar
Department	Computer Science
Class & Section	BCA 1st Semester
Subject and Code	Computer and Programming Fundamentals & BCA-111
Semester Duration	1st September 2022 - 24th December 2022

Topics

1st September 2022 - 15th September 2022

Computer Fundamentals: Definition, Block Diagram along with its components

16th September 2022 - 30th September 2022

characteristics & classification of computers, Applications of computers in various fields. Memory: Concept of primary & secondary memory

1st October 2022 - 15th October 2022

RAM, ROM, types of ROM, flash
memory, Secondary storage devices: Sequential & direct access devices viz. magnetic tape, magnetic disk, CD, DVD.

16th October 2022 - 31st October 2022

Computer hardware & software: I/O devices, relationship between hardware and software, types of software

1st November 2022 - 15th November 2022
Operating system: Definition, functions of operating system, concept of multiprogramming, multitasking, multithreading, multiprocessing, time-sharing, real time, single-user & multi-user operating system

16th November 2022 - 30th November 2022
Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming,Documentation, Techniques of Problem Solving: Flowcharting, algorithms, pseudo code, decision table, Structured programming concepts
1st December 2022 - 15th December 2022
Searching, Sorting, and Merging: Linear & Binary Searching, Bubble, Selection, and Insertion Sorting, Merging, Design of algorithms for searching, sorting and merging.
16th December 2022 - 24th December 2022
Computer Languages: Analogy with natural language, machine language, assembly language, high-level language, language translators, characteristics of a good programming language.
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Class & Section	
Subject and Code	
Semester Duration	1st September 2022 - 24th December 2022

Topics

1st September 2022 - 15th September 2022

16th September 2022 - 30th September 2022

1st October 2022 - 15th October 2022

16th October 2022 - 31st October 2022

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