Name of the Teacher: himanshu Class: B.voc1st Sem

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | Evolution of Computer – Generations, Types of Computer, Computer System Characteristics, Basic Components of a Digital Computer – Control Unit, ALU, Input/Output Function and Memory, Memory Addressing Capability of a CPU, Word Length of a Computer, Processing Speed of a Computer, Computer Classification.Input/Output Units - Keyboard, Mouse, Trackball, Joystick, Digitizing Tablet, Scanners, Digital Camera, MICR, OCR, OMR, Bar-Code Reader. | Power point presentation (ppt) |
|  | **01-31 Aug 2017** | Analog Size, Resolution, Refresh Rate, Dot Pitch, Video Standard – VGA, SVGA, XGA etc., Printers & its Types – Daisy Wheel, Dot Matrix, Inkjet, Laser, Line Printer, Plotter; Sound Card and Speakers. Memory – RAM, ROM, EPROM, PROM and Other Types of Memory, Storage Fundamentals – Primary Vs Secondary Data Storage, Various Storage Devices – Magnetic Tape, Magnetic Disks, Cartridge Tape. | Class level quiz |
|  | **01-30 Sept 2017** | Hard Disk Drives, Floppy Disks (Winchester Disk), Optical Disks, CD, VCD, CD-R, CD-RW, Zip Drive, Flash Drives, Video Disk, Blue Ray Disc, SD/MMC | Class test |
|  | **01-31 Oct 2017** | Memory Cards, Physical Structure of Floppy & Hard Disk, Drive Naming Conventions in PC, DVD, DVD-RW, USB Pen Drive. Information Representation - Number Systems, Conversion from one Number System to another Number System, Integer Representation – Sign Magnitude, 1’s Complement, 2’s Complement, BCD Codes. |  |
|  | **01-13 Nov 2017** | Floating-point Representation, Binary Arithmetic – Addition, Subtraction, Multiplication, Division. | ppt |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | Memory and types of all memory |
| **Assignment 2** | Input output devices |
| **Class Test** | What is printer, daisy wheel ,dot matrix ,laser ,inkjet printer |

Name of the Teacher: himanshu Class: BCA 5TH Sem

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | Multimedia: Basic Concept, Definition, Components & Applications of Multimedia; Hypermedia and Multimedia; Multimedia Hardware and Software; Multimedia Software Tools; Presentation Tools; | ppt |
|  | **01-31 Aug 2017** | Multimedia Authoring: Introduction, Features, Types of Authoring Tools: Card or Page-Based, Icon-Based, Time-Based, Object-Oriented; VRML: History, Features. | Daily topic revision |
|  | **01-30 Sept 2017** | Images: Graphics/Image Data Types, File Formats; Color Models in Images and Video; Video: Introduction, Types of Video Signals; Analog and Digital Video  Analog Video Standards: NTSC, PAL, SECA; Digital Video Standards: Chroma Sub sampling , CCIR Standards, HDTV. | Class test |
|  | **01-31 Oct 2017** | . Digital Audio: Basic Concepts, Analog vs. Digital Audio, Digitization of Sound; Digital Audio File Formats, MIDI.  Quantization and Transmission of Audio: Coding of Audio; Pulse Code Modulation; Differential Coding of Audio; Lossless Predictive Coding; DPCM; DM; ADPCM.  Compression Techniques: Introduction, Types of Data Compression, Run-Length Coding, Variable-Length Coding, Dictionary-Based Coding, Transform Coding Image and Video Compression Techniques: JPEG Standard for Image Compression; | Class level quiz |
|  | **01-13 Nov 2017** | JPEG Mode ,Video Compression Techniques: H.261, H.263, MPEG. | revision |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| **Assignment 1** | Color model in images and video |
| **Assignment 2** | Multimedia software tools |
| **Class Test** | Multimedia Authoring Tools with their names and explanation. |

Name of the Teacher: himanshu Class: Mcom 3rd Sem

**Lesson Plan**

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| **S No** | **Period** | **Topics to be Covered** | **Academic Activity to be Organized** |
|  | **17-31 July 2017** | Computer System: Meaning, scope, types; Basic computer organization: Central Processing Unit, input, output, and storage devices; Introduction to software; System software – operating system, user interface and its types. | Class Test |
|  | **01-31 Aug 2017** | Application software - word processing, spreadsheets; Introduction to databases, tables, queries, reports and form generation. Fuzzy Logic, etc. | Class quiz |
|  | **01-30 Sept 2017** | Information Technology in Business: Concept of information technology; Local Area Network– media & topologies and Wide Area Networks. | ppt |
|  | **01-31 Oct 2017** | Electronic data processing; Intranet and extranet, concept and evolution; World Wide Web; Multimedia technologies; Video conferencing; Broadband networks; | Revision of previous topics |
|  | **01-13 Nov 2017** | Planning and designing web pages | Revision |

**Topics of Assignments/ Class Tests to be given to the Students:**

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| --- | --- |
| **Assignment 1** | Input and output device |
| **Assignment 2** | Memory and types of secondary memory |
| **Class Test** | Operating system |