

## Lesson Plan

**Subject-** Computer Science and Applications

**Lesson Plan-** 17 Weeks (July – Nov 2019)

| Week | Date          | BCA-356(5 <sup>th</sup> Sem)<br>Multimedia Tools                                |
|------|---------------|---------------------------------------------------------------------------------|
| 1    | 16- July-2019 | -                                                                               |
|      | 17- July-2019 | -                                                                               |
|      | 18- July-2019 | Multimedia: Basic Concept, Definition, Components & Applications of Multimedia; |
|      | 19- July-2019 | Components & Applications of Multimedia                                         |
|      | 20- July-2019 | Hypermedia and Multimedia, Multimedia Hardware and Software                     |
|      | 21- July-2019 | Sunday                                                                          |
| 2    | 22- July-2019 | -                                                                               |
|      | 23- July-2019 | -                                                                               |
|      | 24- July-2019 | -                                                                               |
|      | 25- July-2019 | Multimedia Software Tools; Presentation Tools                                   |
|      | 26- July-2019 | Multimedia Authoring: Introduction, Features, Types of Authoring Tools          |
|      | 27- July-2019 | Card or Page-Based, Icon- Based, Time-Based, Object-Oriented                    |
|      | 28- July-2019 | Sunday                                                                          |
|      | 29- July-2019 | -                                                                               |
| 3    | 30- July-2019 | -                                                                               |
|      | 31- July-2019 | Holiday                                                                         |
|      | 1- Aug- 2019  | VRML: History, Features                                                         |
|      | 2- Aug- 2019  | Graphics/Image, Data Types                                                      |
|      | 3- Aug- 2019  | File Formats; Color Models in Images and Video                                  |
|      | 4- Aug- 2019  | Sunday                                                                          |
|      | 5- Aug- 2019  | Assignment-1                                                                    |
|      | 6- Aug- 2019  | -                                                                               |
| 4    | 7- Aug- 2019  | -                                                                               |
|      | 8- Aug- 2019  | Introduction, Types of Video Signals                                            |
|      | 9- Aug- 2019  | Sessional                                                                       |
|      | 10- Aug- 2019 | Analog and Digital Video                                                        |
|      | 11- Aug- 2019 | Sunday                                                                          |
|      | 12- Aug- 2019 | Holiday                                                                         |
|      | 13- Aug- 2019 | -                                                                               |
|      | 14- Aug- 2019 | -                                                                               |
| 5    | 15- Aug- 2019 | Holiday                                                                         |
|      | 16- Aug- 2019 | Analog Video Standards:NTSC, PAL, SECA                                          |
|      | 17- Aug- 2019 | Digital Video Standards: Chroma Sub sampling                                    |
|      | 18- Aug- 2019 | Sunday                                                                          |
|      | 19- Aug- 2019 | -                                                                               |
|      | 20- Aug- 2019 | -                                                                               |
|      | 21- Aug- 2019 | -                                                                               |
|      | 22- Aug- 2019 | CCIR Standards, HDTV                                                            |
| 6    | 23- Aug- 2019 | CCIR Standards, HDTV                                                            |

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|    | 24- Aug- 2019   | Digital Audio: Basic Concepts                           |
|    | 25- Aug- 2019   | Sunday                                                  |
| 7  | 26- Aug- 2019   | -                                                       |
|    | 27- Aug- 2019   | -                                                       |
|    | 28- Aug- 2019   | -                                                       |
|    | 29- Aug- 2019   | Analog vs. Digital Audio                                |
|    | 30- Aug- 2019   | Digitization of Sound; Digital Audio File Formats, MIDI |
|    | 31- Aug- 2019   | Quantization and Transmission of Audio                  |
|    | 1- Sept- 2019   | Sunday                                                  |
| 8  | 2- Sept- 2019   | -                                                       |
|    | 3- Sept- 2019   | -                                                       |
|    | 4- Sept- 2019   | -                                                       |
|    | 5- Sept- 2019   | Coding of Audio; Pulse Code Modulation                  |
|    | 6- Sept- 2019   | Pulse Code Modulation                                   |
|    | 7- Sept- 2019   | Differential Coding of Audio                            |
|    | 8- Sept- 2019   | Sunday                                                  |
| 9  | 9- Sept- 2019   | -                                                       |
|    | 10- Sept- 2019  | -                                                       |
|    | 11- Sept- 2019  | -                                                       |
|    | 12- Sept- 2019  | Lossless Predictive Coding; DPCM                        |
|    | 13- Sept- 2019  | DM                                                      |
|    | 14- Sept- 2019  | ADPCM                                                   |
|    | 15- Sept- 2019  | Sunday                                                  |
| 10 | 16- Sept- 2019  | -                                                       |
|    | 17- Sept- 2019  | -                                                       |
|    | 18- Sept- 2019  | -                                                       |
|    | 19- Sept- 2019  | Introduction, Types of Data Compression                 |
|    | 20- Sept- 2019  | Run-Length Coding                                       |
|    | 21- Sept- 2019  | Run-Length Coding                                       |
|    | 22- Sept- 2019  | Sunday                                                  |
| 11 | 23- Sept- 2019  | Holiday                                                 |
|    | 24- Sept- 2019  | -                                                       |
|    | 25- Sept - 2019 | -                                                       |
|    | 26- Sept - 2019 | Variable-Length Coding                                  |
|    | 27- Sept - 2019 | Variable-Length Coding                                  |
|    | 28- Sept - 2019 | Revision                                                |
|    | 29- Sept - 2019 | Sunday                                                  |
| 12 | 30- Sept - 2019 | -                                                       |
|    | 1- Oct- 2019    | -                                                       |
|    | 2- Oct- 2019    | Holiday                                                 |
|    | 3- Oct- 2019    | Dictionary-Based Coding,                                |
|    | 4- Oct- 2019    | Dictionary-Based Coding,                                |
|    | 5- Oct- 2019    | Transform Coding                                        |
|    | 6- Oct- 2019    | Sunday                                                  |
|    | 7- Oct- 2019    | -                                                       |
|    | 8- Oct- 2019    | Holiday                                                 |
|    | 9- Oct- 2019    | -                                                       |
|    | 10- Oct- 2019   | Holiday                                                 |

|    |               |                                                                        |
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| 13 | 11- Oct- 2019 | Image and Video Compression Techniques                                 |
|    | 12- Oct- 2019 | Introduction Video Compression Techniques Video Compression Techniques |
|    | 13- Oct- 2019 | Sunday                                                                 |
| 14 | 14- Oct- 2019 | -                                                                      |
|    | 15- Oct- 2019 | -                                                                      |
|    | 16- Oct- 2019 | -                                                                      |
|    | 17- Oct- 2019 | Holiday                                                                |
|    | 18- Oct- 2019 | Sessional                                                              |
|    | 19- Oct- 2019 | Overview H.261,MPEG                                                    |
|    | 20- Oct- 2019 | Sunday                                                                 |
| 15 | 21- Oct- 2019 | -                                                                      |
|    | 22- Oct- 2019 | -                                                                      |
|    | 23- Oct- 2019 | -                                                                      |
|    | 24- Oct- 2019 | Revision                                                               |
|    | 25- Oct- 2019 | Diwali Break                                                           |
|    | 26- Oct- 2019 |                                                                        |
|    | 27- Oct- 2019 |                                                                        |
|    | 28- Oct- 2019 |                                                                        |
| 16 | 29- Oct- 2019 |                                                                        |
|    | 30- Oct- 2019 | Revision                                                               |
|    | 31- Oct- 2019 | Revision Test                                                          |
|    | 1- Nov- 2019  | Holiday                                                                |
|    | 2- Nov- 2019  | Holiday                                                                |
|    | 3- Nov- 2019  | Sunday                                                                 |
|    | 4- Nov- 2019  | -                                                                      |
| 17 | 5- Nov- 2019  | -                                                                      |
|    | 6- Nov- 2019  | -                                                                      |
|    | 7- Nov- 2019  | Discussion over Previous Year papers                                   |
|    | 8- Nov- 2019  | Discussion over Previous Year papers                                   |
|    | 9- Nov- 2019  | Revision                                                               |
|    | 10- Nov- 2019 | Sunday                                                                 |