## Lesson Plan

**Discipline :** Computer Engg.

**Semester :** 3rd

## Subject : Multimedia Applications

**Lesson Plan Duration** : 15 weeks (from 15/09/2022 to 16/01/2022)

**Workload (Lecture / Practical) per week (in hours):** Lectures-03, Practical-03

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| **Week** | **Theory** | | **Practical** | |
| **Lecture day** | **Topic**  **(including assignment / test)** | **Practical Day** | **Topic** |
| **1st** | **1st** | Concept of Multimedia, History of Multimedia | 1st | Prac. 1  Installation of various multimedia software like Photoshop, Flash, Director or any open source software |
| **2nd** | Multimedia hardware and software |
| **3rd** | -various classes, components |
| **2nd** | **4th** | Quality criteria and specifications of different capturing devices | 2nd | Installation of various multimedia software like Photoshop, Flash, Director or any open source software |
| **5th** | Communication devices, |
| **6th** | Storage devices, Display devices |
| **3rd** | **7th** | Elements of Multimedia, different multimedia file formats | 3rd | Prac. 2  Installing and use of various multimedia devices   * Scanner * Digital camera, web camera * Plotter and printers   - |
| **8th** | Applications of multimedia – benefits and problems |
| **9th** | Revision |
| **4th** | **10th** | Planning steps and process, Audio encoding techniques, , | 4th | * Mike and speakers * Touch screen |
| **11th** | Concept of data compression, Text encoding, |
| **12th** | Types of images, capturing images using camera/scanner, |
| **5th** | **13th** | coding techniques for Moving Images, | 5th | * DVD * Audio CD and Video CD |
| **14th** | Editing, Editing of images audio |
| **15th** | text, video and graphics, |
| **6th** | **16th** | Revision | 6th | Prac. 3  Reading and writing of different format on CD/DVD |
| **17th** | Revision |
| **18th** | navigation and user interface designing, |

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| **Week** | **Theory** | | **Practical** | |
| **Lecture day** | **Topic**  **(including assignment / test)** | **Practical Day** | **Topic** |
| **7th** | **19th** | Use of various codes like bar code, QR code  in multimedia applications. | 7th | Prac. 4  Transporting audio and video files |
| **20th** | Use of various codes like bar code, QR code  in multimedia applications |
| **21st** | Revision |
| **8th** | **22nd** | Photo-shop workshop, | 8th | Prac. 5  Using various features of Flash |
| **23rd** | , image editing tools, |
| **24th** | specifying and adjusting colors |
| **9th** | **25th** | using gradient tools, | 9th | Using various features of Flash |
| **26th** | selection and move tools, |
| **27th** | transforming path drawing and |
| **10th** | **28th** | editing tools, | 10th | Prac. 6  Using various features of Photo- shop/GIMP |
| **29th** | using channels, |
| **30th** | layers, filters and actions |
| **11th** | **31st** | layers, filters and actions | 11th | Prac. 7  Making multimedia presentations combining, Flash, Photo-shop, such as department profile, lesson  presentation, games and project presentations |
| **32nd** | Revision |
| **33rd** | Revision |
| **12th** | **34th** | Types of Authoring programs | 12th | Making multimedia presentations combining, Flash, Photo-shop, such as department profile, lesson presentation, games and project  presentations |
| **35th** | Icon based, Time based, |
| **36th** | Story boarding/scripting and object-oriented working in macromedia flash, |
| **13th** | **37th** | exploring interface using selection of PEN  tools. | 13th | Prac. 8  Generation and recognition of bar code & QR code using prebuilt application/mobile applications. |
| **38th** | Working with drawing and painting tools, |
| **39th** | , applying colour viewing and manipulating timeline |
| **14th** | **40th** | animating, processing, guiding layers, | 14th | Generation and recognition of bar code & QR code using prebuilt application/mobile applications. |
| **41st** | importing and editing sound and |
| **42nd** | video clips in flash |
| **15th** | **43rd** | Revision | 15th |  |
| **44th** | Revision |
| **45th** | Revision |