

35283 - MULTIMEDIA SYSTEMS LAB

DETAILED SYLLABUS

OBJECTIVES

After the completion of this lab students should know about

- How to create Audio hardware & software applications
- How to Record & Edit digital audio using sound editing software
- To learn about Video Editing
- How to apply various filters & Compression techniques in Multimedia Applications.
- To learn about 3D and cloud animation

LIST OF EXPERIMENTS

1. Use HTML5 multimedia support to play different audio and video formats in a browser using a desktop and a mobile.
2. Use a audio processing Software and perform the audio editing tasks– Import audio, Select and edit the sound, Create fade-in fade-out effects, Label audio segments, Use noise remove filter, Mix audio, Change stereo to mono tracks, Export audio to different format and save.
3. Use a video processing Software to perform – Trim video clips, crop video, rotate video, join video, add subtitles, and edit video dimension, bit rate, frame rate, sample rate, channel, and video/audio quality tasks on a video.
4. Create a Movie from video clips to demonstrate: - Audio-Video Mixing, Music, Video Effects, Video Transitions, and Titles.
5. Create a 3D image of an object such as a magnifying glass using 3D software.
6. Create a 3D animation (such as a animated eye) using a 3D modeling software.
7. Create a moving cloud animation using any animation software.
8. Use a scanner to create two or more partial scanned images of large poster / photo. Create a panoramic view of multiple photos by stitching together them using any panorama software.
9. Create a glossy web menu bar for a using in a web page.
10. Using photo editor software and /or GIF creator software create a animation such as a flying balloon.
11. Create a pencil sketch of a picture using a suitable software.

12. Use audio ripper tools to rip Audio-CDs, audio from video, audio from DVD. Convert the ripped audio into various formats. Burn the audio in to CDs.
13. Use a audio recording program to record audio from different sources of input such as line-in, PC speaker output etc applying different filters, encoding and compression schemes. Split the audio into pieces. Merge different pieces together. Use appropriate tools.
14. Use suitable software to
 - a) compress / decompress audio / video files.
 - b) convert audio /video to different formats.
 - c) split, join, rip audio / video
15. Create a fireworks art using a suitable software tool.