

DETAILED SYLLABUS

1. Use a audio processing software and perform the audio editing tasks — Import audio, select and edit the sound, create fade-in and fade-out effects, label audio segments, use noise remove filter, mix multiple sound sources, change stereo to mono tracks, export audio to different format and save.
 2. Use a video processing software to perform — Trim video clips, rotate video, merge video, split video, add titles, add special effects and edit video dimensions, bit rate, frame rate, sample rate, channel.
 3. Create a movie from video clips to demonstrate — Audio-Video mixing, add music, video effects, video transition and titles.
 4. Use suitable software and perform a) compress / decompress audio / video files. b) Convert audio/video to different format.
 5. 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.
 6. Develop a web page which shows animation with sound effect using any professional HTML editor.
 7. Convert the given image into pencil sketch using suitable photo editing software.
 8. Design a certificate for sports day with different text effects using suitable software.
 9. Import any two pictures, Morph, Merge and Overlap those two pictures.
 10. Draw the raindrop that falls on the ground. Show the splash effect and sound effect using suitable software.
 11. Create a moving cloud animation using any animation software.
 12. Create a 2D animation using motion guide layer and masking.
 13. Create a 2D animation of an aero plane take off using suitable software.
 14. Design a metallic text using 3D animation tool
 15. Import an image with green screen background. Change the background of the imported image with required image using Chroma key technique.
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DETAILED ALLOCATION OF MARKS

Procedure / Program	45 Marks
Execution	40 Marks
Result with printout	10 Marks
VIVA – VOCE	5 Marks
TOTAL	100 Marks

LIST OF HARDWARE SUGGESTED

- I Desktop PCs– 30 Nos
- II Laser Printer Monochrome, Color – 1 Each
- III Digital (Video) Camera - 1No.
- IV Flat bed A4 size Scanner - 1 No.

LIST OF SOFTWARE SUGGESTED

Operating system: Windows 7, Windows 10, Linux

Software tools: Open Source Software or Commercial Software.

The following is the suggestive list of open source software and their commercial replacement. Experiments may be done using either open source software or commercial software.

3D Graphics and Animation

- 1. Art of Illusion Replaces: AutoDesk Maya
- 2. Blender Replaces: AutoDesk Maya

Audio Players

- 3. aTunes, Audacious, Clementine are Replaces: iTunes
- 4. CoolPlayer, MPH-HC Replaces: Windows Media Player
- 5. Zing Replaces: Windows Media Player

Audio Recorders and Editors

- 6. Audacity Replaces: Sonar X1, Sony ACID, Adobe Audition
- 7. Frinika Replaces: Sonar X1, Sony ACID

Audio Ripping and Conversion

- 8. fre:ac, BonkEnc Exact Audio Copy, Audio Converter Studio
- 9. CUEripper, CDex Exact Audio Copy

10. MMConvert Exact Audio Copy

Multimedia Players

11. VLC Media Player Replaces: Windows Media Player

12. Mplayer Replaces: Windows Media Player

13. KODI Replaces: Windows Media Player

14. MediaPortal Replaces: Windows Media Player

Video Editing

15. Cinelerra Replaces: Adobe Premiere

16. OpenShot Video Editor Replaces: Adobe Premiere Pro CS5

17. Avidemux Replaces: Adobe Premiere

18. Kdenlive Replaces: Adobe Premiere Pro CS5

19. CineFX Replaces: Adobe Premiere Pro CS5

Video File Conversion

20. DVDx Replaces: Movavi Video Converter, Zamzar

21. DVD Flick Replaces: Movavi Video Converter, Zamzar

22. FFDShow Replaces: Movavi Video Converter, Zamzar

Video Player

23. Miro Replaces: Windows Media Player

CD / DVD Burners

Infrared Recorder**DVD**

Authoring

25. DVD Flick, DVDStyler, Bombono DVD