Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
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MC5212 GRAPHICS AND MULTIMEDIA LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To study the graphics techniques and algorithms
- To understand the concept of geometric, mathematical and algorithmic concepts necessary for programming computer graphics
- To enable the students to develop their creativity using Multimedia concepts and various I/O technologies
- To apply Multimedia data processing and analysis techniques to real world applications

LIST OF EXPERIMENTS

- 1. Creation of 2Dimensional objects using Graphics functions
- 2. 2Dimensional Transformations
- 3. 2Dimensional Composite Transformations
- 4. Clipping and Windowing of a 2Dimensional Object
- 5. 3Dimensional Simple Transformations
- 6. 3Dimensional Composite Transformations
- 7. Parallel and Perspective Projections
- 8. Visible Surface Detection of a 3Dimensional Object
 - a) Colour to Gray scale conversion of an image
 - b) Image optimization
 - c) Image manipulation using Filters
 - d) Creation of GIF animated images
 - a) Image Compression
 - b) Guide layer effects in an image
 - c) Frame by Frame Animation
 - d) Product Advertisement with Multimedia effects

LIST OF SOFTWARE

- 1. C/C++/Java
- 2. OpenGL 4.1 (Precompiled GLUT libraries 4.1 Open source)
- 3. Any open source software like GIMP 2.8/ Flash 11.9 /Photoshop