

Syllabus

**Mumbai University
Revised syllabus (Rev-2016) from Academic Year 2017-18**

Computer Graphics

| Course Code | Course Name | Credits |
|-------------|-------------------|---------|
| CSC604 | Computer Graphics | 4 |

Course Objectives

1. To equip students with the fundamental knowledge and basic technical competence in the field of computer graphics.
2. To emphasize on implementation aspect of Computer Graphics Algorithms.
3. To prepare the student for advance areas like Image Processing or Computer Vision or Virtual Reality and professional avenues in the field of Computer Graphics.

Course Outcomes : At the end of the course student should be able to

1. Understand the basic concepts of Computer Graphics.
2. Demonstrate various algorithms for scan conversion and filling of basic objects and their comparative analysis.
3. Apply geometric transformations, viewing and clipping on graphical objects.
4. Explore solid model representation techniques and projections.
5. Understand visible surface detection techniques and illumination models.

Prerequisite : Knowledge of C Programming, Basic Data Structures and Mathematics.

| Module No. | Detail Syllabus | Hours |
|------------|--|-------|
| 1. | Introduction and Overview of Graphics System : <ul style="list-style-type: none">• Definition and Representative uses of computer graphics, classification of application areas, Overview of coordinate systems ,definition of scan conversion, rasterization and rendering.• Raster scan & random scan displays, Flat Panel displays like LCD and LED , architecture of raster graphics system with display processor, architecture of random scan systems. <p style="text-align: right;">(Refer Chapter 1)</p> | 03 |
| 2. | Output Primitives : <ul style="list-style-type: none">• Scan conversions of point,line, circle and ellipse : DDA algorithm and Bresenham algorithm for line drawing, midpoint algorithm for circle, midpoint algorithm for ellipse drawing (Mathematical derivation for above algorithms is expected)• Aliasing . Antialiasing techniques like Pre and post filtering , super sampling , and pixel phasing).• Filled Area Primitive: Scan line Polygon Fill algorithm, Inside outside tests, Bounded Fill and Flood fill algorithm. <p style="text-align: right;">(Refer Chapters 2 and 3)</p> | 12 |

Computer Graphics Techmax

Ying Liu



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