

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

SJ Ball



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Table of Contents Computer Graphics Techmax

1. Understanding the eBook Computer Graphics Techmax
 - The Rise of Digital Reading Computer Graphics Techmax
 - Advantages of eBooks Over Traditional Books
2. Identifying Computer Graphics Techmax
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Computer Graphics Techmax
 - User-Friendly Interface
4. Exploring eBook Recommendations from Computer Graphics Techmax
 - Personalized Recommendations
 - Computer Graphics Techmax User Reviews and Ratings
 - Computer Graphics Techmax and Bestseller Lists
5. Accessing Computer Graphics Techmax Free and Paid eBooks
 - Computer Graphics Techmax Public Domain eBooks
 - Computer Graphics Techmax eBook Subscription Services
 - Computer Graphics Techmax Budget-Friendly Options

6. Navigating Computer Graphics Techmax eBook Formats
 - ePub, PDF, MOBI, and More
 - Computer Graphics Techmax Compatibility with Devices
 - Computer Graphics Techmax Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computer Graphics Techmax
 - Highlighting and Note-Taking Computer Graphics Techmax
 - Interactive Elements Computer Graphics Techmax
8. Staying Engaged with Computer Graphics Techmax
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computer Graphics Techmax
9. Balancing eBooks and Physical Books Computer Graphics Techmax
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computer Graphics Techmax
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Computer Graphics Techmax
 - Setting Reading Goals Computer Graphics Techmax
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Computer Graphics Techmax
 - Fact-Checking eBook Content of Computer Graphics Techmax
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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