Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj Master of Science (Computer Applications & Information Technology) Semester: VI

Paper Code: CECS612		Total Credit : 4	
Title of Paper: Computer Graphics and Multimedia		Total Marks: 70 Time: 3 Hrs	
Unit	Description	Weighting	
I	Overview of Computer Graphics System:		
	A survey of Computer Graphics		
	Over View of Computer Graphics System		
	Video display devices	20%	
	Raster Scan and random scan system		
	Input devices		
	Hard copy devices		
II	Output Primitives and Attributes		
	Drawing line, circle and ellipse generating algorithms		
	Scan line algorithm		
	Character generation – attributes of lines, curves and characters	20%	
	Two Dimensional Graphics Transformation		
	Two dimensional geometric transformations		
	Windowing and Clipping		
	Clipping of lines		
III	Three Dimensional Graphics Transformation		
	Three dimensional concepts – representations	200/	
	Polygon table, Quadric surfaces, Splines, Besier curves and surfaces	30%	
	Geometric and Modeling transformations Viewing		
	Parallel and perspective projections.		
IV	Removal of Hidden Surfaces		
1 4	Visible surface detection methods	10%	
	Computer animation	1070	
V	Multimedia		
•	Introduction, Definition, Multimedia Hardware, Multimedia Software,		
	Multimedia Networking, Multimedia Application,	20%	
	Multimedia Environments, Multimedia Computer Components,	2070	
	Multimedia Standards, Multimedia PC.		
	Overview of latest multimedia software		
Basic	Text & Reference Books :-		
1.	Tay Vaughan, "Multimedia making it works", 4th Edition Tata McGraw Hill		
2.	Hearn, D. and Pauline Baker, M., "Computer Graphics", 2nd Edition, Prentice Hall of India,		
	1995.		
	Sections: 1.1-1.8,2.1-2.3,2.5,2.6,3.1-3.7,3.11,3.14,4.1,4.2,4.5,5.1-5.5,6.1-6.7	7,9.1,9.2, 10.1-10.4,	
	10.6-10.8, 11.1-11.7, 12.1,12.3, 13.1-13.9, 13.12, 16.1-16.6)		
3.	Neuman, W.M., and Sproull, R.F., "Principle of Interactive Computer Graph	hics", McGraw Hill	
1	BookCo., 1979.		

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Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Medium / Long Questions. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Medium / Long Questions. (With Internal Option)	08	