

Department of Liberal Education Era University, Lucknow Course Outline Effective From: 2023-24

Name of the	B.A. / B.Sc. (LIBE)	RAL EDU	CATION)	Year/ Semester: 3 rd /6 th							
Program											
Course	Fundamentals of	Course	Course ANI305P Type:		Practical						
Name Crodita	3D Animation	Code:		Total Drastical Hour		20.11					
Evaluation	Internal	UI 10 Marks		Find Term Exem.	<u>s:</u> 1	5 Marks					
Spread	Continuous	10 Marks		Enu rerm Exam.	1	15 Marks					
	Assessment:										
Type of Course	C Compulsory	• Co	re	O Creative	C	O Life Skill					
Course	1. 3D modeling is the digital representation of any object or surface using 3D										
Objectives	modeling software.										
	2. In the most basic case, a three-dimensional model can be created from simple										
	shapes like cubes, rectangles, and triangles.										
	3. These shapes are modified into complex shapes, 3D modeling is the digital										
	representation of any object or surface using 3D modeling software.										
	4. In the most basic case, a three-dimensional model can be created from simple										
	shapes like cubes, rectangles, and triangles. These shapes are then modified into										
	complex, high-polygon designs.										
		1	0.1	1. 1	.11 1 1	<u> </u>					
Course Outo	comes(CO): After th	he succes.	sful course	completion, learners	will develo	op following					
auribules:											
Outcome	Attributes										
(CO)	Attributes										
CO1	Identify characterist	ics of rend	lering 3D obje	ects for optimal system	processing	and analysis.					
	Create a 3D environment featuring lighting and textures. Create basic 3D models and										
	animations. Evaluate digital 3D projects, identify items for improvement, and implement										
	changes.										
CO2	During the term of the course, students will learn to work within virtual 3D space and										
	build volumetric objects including: vertices, spines, polygons, primitive shapes and Sub										
CO3	Students will use these tools to build complex objects then learn the basic 3-D rendering										
	tools and techniques including: surface channels, procedural textures, image mapping, light										
	types and settings, camera settings and use, as well as a variety of rendering options,										
	Including ray tracing. Students will also learn the importance of file backup and										
	Management.										
CO4	Students will also learn the importance of file backup and Management.										
redagogy	Interactive, discussion-based, student-centered. program outputs.										
Internal Evoluction	Experiment-writing and Conductance File Maintenance/ Laboratory Record										
	Continuous Attendance and Participation										
Practical		Exn	eriments		Contact	Mapped					
No.		p			Hours	ours CO					
1.	Fundamenta	al 3D Mod	eling Concep	ts	4	CO1, CO2					
	 Flements of 										

		Introduction to Texture and lighting												
2.		Introduction to Rigging									6 CO2		O2	
		3D Animation												
		Rendering												
		•	• Vertex: A single point and the smallest component of a								fa			
			3D model.											
		• Edge: A straight line that connect two vertices.												
3.		• Polygon: Any shape that formed by connecting straight							ght	6 CO3		03		
		lines.												
		• Face: The most basic part of a polygon mesh												
		• Mesh: A collection of polygons that are connected in							in					
		their faces, edges, and vertices												
4. • Create			te 3D c	3D character modeling with textured							6+8	C01,		
													CO2, CO4	
CO-PO	D and H	'SO Mapping												
СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	1	2	3	4	PSU 5	PSO6
CO1	1		2				1		1					
CO2		2		2				1		1		2	1	2
C03			1	2		3		1		- 3	2		1	1
Stronge	l ontributi	on-3,	Ave	ragecon	tribution	-2, L	owcontril	bution-1	,					1
Sugge	sted Re	adings	:											
Refere	eference 3D Animation Essentials (Essentials (John Wiley)) Paperback – 2 March 2012 by And								ıdy					
Books	Books Beane													
		Digital Modeling by William Vaughan												
E-		file:///C:/Users/Ishu/Downloads/Documents/3D_Animation_Essentials_Softgozar.com.												
Resou	Resources pdf													
Intern	al Prac	tical E	valuati	on:	_									
Component				Mar	ks									
Experiment-Writing and			5											
Condu														
File M	aintena		2											
Continuous Attendence and			1											
Participation														
Viva-Voce				2										
Total Marks			10											

Course created by: Ms. If

Ms. Iffat Jahan

Approved by: Mr. Gaurav Rawat

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Signature:

Signature: