

Department of Liberal Education Era University, Lucknow

Course Outline Effective From: 2023-24

Name of the	B.A. / B.Sc. (LIBEI	DAT		Year/ Semester:	rd / 6 th			
Program	EDUCATION)	XAL		Teat/ Semester.		7 0		
Course	Introduction to	Course ANI306 Typ		Type:	Т	heory		
Name	3D Max	Code:	ANISOU	Type.	Theory			
Credits		04		Total Sessions Hours:	60 Hours			
Evaluation	Internal	50 Marks		End Term Exam:	50Marks			
Spread	Continuous	50 Marks		End Term Exam.	30	IVIAI KS		
Spread	Assessment:							
Type of		_						
Course	C Compulsory	Cor	e	C Creative	C Life Skill			
Course	1. The prime obj	rime objective of this course is to develop Autodesk 3Ds Max, formerly 3D						
Objectives	Studio and 3D Studio Max, a professional 3D computer graphics program for making							
		_		nages. It is developed and	produced	by Autodesk		
	Media and Ente							
		•		ng, animation, and rendering	~			
	_		nd models. It	t plays a huge role in design	gning 2D	cross-section		
	shapes for 3D r	nodels.						
Course Out	comes(CO): After t	ha succas	sful course	completion, learners w	ill devel	on following		
attributes:	comes(co). After the	ne succes	sjui course	completion, learners w	iii ueveic	op jouowing		
Course								
Outcome	Attributes							
(CO)								
CO1	Attaining a strong	understar	nding of m	odeling, materials, lighting	ng, textu	ring, camera		
	animation, are rendering etc.							
CO2	Handling advanced tools to create stunning 3D models for architectural interior designing.							
CO3	Creating realistic walk through animations in 3Ds Max.							
CO4	Learners will have the complete knowledge about the coloring, transitions, textures,							
	various kinds of models and professional skills.							
Pedagogy	Interactive, discussion-bases, student-centered, presentation.							
Internal	Mid-term Examinati	ion: 20 M	arks	-				
Evaluation	Activity: 10 Marks							
Mode	Class test: 05 Marks							
	Online Test/Objective Test: 05 Marks							
	Assignments/Presentation: 05 Marks							
	Attendance: 05 Marks							
Session		Topic Hours Map				Mapped		
Details						CO		
Unit 1	3DS Max				15	CO1		
±	This software helps with better communicate with designs and							
	create strong narration of the story. 3D Max is widely used							
	_		-	ning, Interior designing,				
	exterior designing, e		_					

	 Modeling Texturing Lighting & shading Rendering Rigging Animation Activity: User interface, user interface components. Viewports, viewports configuration. Working in the user interface. 		
Unit 2	Modeling & Texturing Modeling is the process of creating objects with the use of different types of methods or approaches with the tools and commands given in 3Ds Max. Architecture Modeling Character Modeling Texturing an object is understand as the process of adding skin and color to an object. • UV Unwrapping • Seaming the Rest of the Body • Applying the Color Map • Applying the Bump Map Applying the Specular Map Activity: 3D Modeling, Advantages & Disadvantages Polygon Modeling UV texturing: Texturing of Characters and Props. Shading Different Maya Shades.	15	CO2, CO4
Unit 3	Animation Animation in Maya is generally measure-using frames that mimic the frames you would find on a film reel. Maya animation provides you with the powerful tools you need to bring the characters and objects in your scenes to life. These tools give you the freedom to animate any attribute of an object and the control you need to success transform joints and bones, IK handles, and models over time. • Animation Basics • Key frames Animation • Nonlinear Animation • Path Animation • Motion Capture Animation. Activity: Reflecting on human movement Gaining an insight into creating believable action Practicing the mechanics of biped walks, runs, head turns, gestures Methods of lip-syncing to sound breakdowns Posing characters in scenes	15	CO3
Unit 4	Rendering Rendering creates a 2D image or animation based on your 3D scene. It shades the scene's geometry using the lighting you have set up, the materials you've applied, and environment settings such as background and atmosphere. Rendering is multi-threaded and multiprocessor on multiple-processor configurations. • Rendering Parameters	15	CO4

- Using Network Rendering to Setup a Render Farm
- Network Rendering With monitor
- Cameras:
- Free Camera
- Target Camera
- Camera Viewport

Activity: Rendering: 3D rendering, advance lighting effects, Shading material for objects: Anisotropic, Blind, Lambert, Pong, Layer Shade, Ocean Shade, Hair tube shade, Ramp shade, Shading Map, Surface shade, Refining shading materials, Mental ray rendering and Toon shade rendering. IPR rendering, Software, Hardware rendering, Batch rendering, Creating various output as per the end user requirements and maintaining the resolution.

CO-PO and PSO Mapping

СО	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO6
CO1	1					2			2	2			1	
CO2	2								3	1			1	
CO3	2		2			1			1				1	1
CO4	2					2			3	2			1	

Strongcontribution-3,

Averagecontribution-2,

Lowcontribution-1,

Suggested Readings:

Text- Books

- 1. Autodesk 3Ds Max 2021 Fundamentals Published August 18, 2020 By ASCENT
- 2. Autodesk 3Ds Max 2023 for Beginners: A Tutorial Approach, 23rd EditionCADCIM Technologies, USA Prof. Sham Tickoo, Purdue University Northwest, USA

Reference Books

file:///C:/Users/Ishu/Downloads/Documents/0672336995.pdf

 $\frac{file:///C:/Users/Ishu/Downloads/Documents/Beginner\%E2\%80\%99s\%20Guide\%20to\%20}{Create\%20Models\%20With\%203ds\%20Max.pdf}$

Para Text

Unit 1:

- 1. https://youtu.be/8TAFh-a6gac
- 2. https://youtu.be/hS4b6eSwUBQ

Unit 2:

- 1. https://youtu.be/DkeEjByWr-I
- 2. https://youtu.be/wyPDUfeKhsM

Unit 3:

- 1.https://youtu.be/23EZnaJxm-E
- 2.https://youtu.be/SjXG4gjVexE

Unit4:

1. https://youtu.be/GdkJWXiaS3E

Recapitulation & Examination Pattern					
Internal Continuous Assessment:					
Component	Marks	Pattern			
Mid Semester	20	Section A: Contains 10 MCQs/Fill in the blanks/One Word Answer/ True-False type of questions. Each question carries 0.5 mark. Section B: Contains 07 descriptive questions out of which 05 questions are to be attempted. Each question carries 03 marks.			
Class Test	05	Contains 05 descriptive questions. Each question carries 01 mark.			
Activity/ Practical	10	Will be decided by subject teacher			
Online Test/ Objective Test	05	Contains 10 multiple-choice questions. Each question carries 0.5 mark.			
Assignment/ Presentation	05	Assignment to be made on topics and instruction given by subject teacher			
Attendance	05	As per policy			
Total Marks	50				

Course created by:	Ms. Iffat Jahan	Approved by: Mr. Gaurav Rawat
Signature:		Signature: