



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Bachelor of Interior Design

Level: UG

Branch: BID

Course / Subject Code : 2X65105

Course / Subject Name : Digital Technology IV

w. e. f. Academic Year:	2024-2025
Semester:	6
Category of the Course:	Compulsory

Prerequisite:	Students should have cleared Digital Technology III.
Rationale:	<ul style="list-style-type: none">To learn how to create complex shapes and parametric formsTo learn realistic rendering techniquesTo understand applications of mix mode softwares to create visualisations along with composed presentation for juries, competitions, portfolios and pitch meetings.

Teaching and Examination Scheme:

Teaching Scheme (in Hours)			Total Credits L+T+ (PR/2)	Assessment Pattern and Marks				Total Marks
L	T	PR	C	Theory		Tutorial / Practical		
				ESE (E)	PA / CA (M)	PA/CA (I)	ESE (V)	
0	2	2	4	NA	NA	50	50	100

Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	Unit 1: Parametric Software (Rihno: Grasshopper Plugin/ or related softwares) Learning how to create complex parametric forms and shapes using the softwares like Grasshopper and its applications in interior spaces	18	25
2.	Unit 2: Rendering Software (SketchUp: V-Ray Plugin/ or related software) Learning how to render using softwares like V-Ray, how to place camera, Light, Rendering of Interior spaces	18	25
3.	Unit 3: Using Mix Mode Softwares for visualisations Learning how to use understanding of previously taught softwares like Photoshop, InDesign, AutoCAD, SketchUp to cohesively and efficiently create visualisation and sheet compositions for Portfolio Making, Juries, etc	32	50



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	Total	68	100

*: indicative

References/Suggested Learning Resources:

(a) Books:

1. Grasshopper Visual Scripting for Rhinoceros 3D by David Bachman
2. Photographic Rendering with V-Ray for SketchUp by Brian Bradley
3. Visual Communication for Architects and Designers: Constructing the Persuasive Presentation by Margaret Fletcher

Suggested Project List:

- A. Specific Exercises to test their software Skills. Students may take projects from previous semesters studios for these exercises or as directed by the faculty.
- B. Portfolio making can be introduced as a term end assignment.

*- This is suggestive for common purpose. Faculty may decide on this, considering student group and institution philosophy

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