



GUJARAT TECHNOLOGICAL UNIVERSITY

Program Name: Bachelor of Interior Design

Level: UG

Branch: BID

Course / Subject Code : 2X55102

Course / Subject Name : Interior Services - III

w. e. f. Academic Year:	2024 - 2025
Semester:	5
Category of the Course:	Compulsory

Prerequisite:	It is mandatory to complete Interior Services II in order to opt for this course.
Rationale:	This course applies deep, comprehensive and practical integration of Automation with design solutions for Interior design along with Surveillance, Acoustics and Vertical Transportation.

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)	
2	0	0	2	50	NA	50	NA	100

Course Content:

Unit No.	Content	No. of Hours	% of Weightage
1.	Unit 1: Automation in Interiors Introduction to Building management systems. Controllers, Sensors –classification, central control unit and devices (fixtures, equipments, gadgets) required in the automation system, Networking types, Risks involved in automation. Integration of different services with interior elements like wall, ceiling, flooring etc. and coordination among different services	08	25
2.	Unit 2: Security and Surveillance Access control systems, burglar alarms, CCTV network; Types of camera, Camera Specifications & Features, Devices for data storage and display systems, Introduction to Digital Video	10	30



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	Recorder, Setting a DVR, DVR Structure and Sections, Classification Of DVR, Special DVRs, Networking. Gases (LPG and medical), gas bank, pressure regulators, distribution, pipes and specials, safety measures.		
3.	Unit 3: Acoustics ELV in Audio Visual, Noise control, vibration analysis, SRS (Sound Reinforcement System), VDS and related Acoustics	06	20
4.	Unit 4: Vertical Transportation Lifts-High speed Lifts, Escalators, Levitators, Travelators, Services for multi-storied buildings like Car Lifts In Parking, Indoor car Lifts.	08	25
Total			100

*: indicative

Thrust / Projects:

- Understanding the implementation of services in real-life scenarios
- Exploring current and conventional usage of interior services
- Selecting appropriate systems for relevant projects

Reference Books:

1. How to Incorporate Smart Home Technology
Control Lighting, Security, AV, and Appliances: Setup and Integration of Smart Lighting, Home Security ... Automation By Jack Homer
2. Smart Homes: Managing Smart Homes, Devices & Systems | smart home manage | smart home devices | smart home systems | smart home for sale and rent | smart home reality in US
3. Master Handbook of Acoustics, Seventh Edition (ELECTRONICS) Paperback - Import, 22 October 2021 by F. Alton Everest (Author), Ken Pohlmann (Author)
4. Architectural Acoustics: A Guide To Integrated Thinking, 1ST Edition Hardcover – 1 March 2020 by Raj Patel (Author)
5. The Vertical Transportation Handbook Hardcover – Import, 2 November 2010 by George R. Strakosch (Editor), Robert S. Caporale
6. Vertical Transportation: Elevators and Escalators George R. Strakosch Wiley, 1967
