

SARVAJANIK UNIVERSITY
Institute of Design Planning & Technology (IDPT)-SCET
TERM END EVALUATION

Programme Name:	Bachelor of Architecture
Programme Code:	BRAR
Examination:	Summer 2026
Year-Semester:	B.ARCH II - SEM IV
Course Name:	Habitat Design Studio
Course Code:	BRAR13401
Date and Day of Examination:	18/05/26 – 19/05/26 & Monday - Tuesday
Marks:	420
Time:	8:30 am to 4:30 pm
Format of Examination	Jury

Project Aim

Housing is not merely a physical shelter but a reflection of social structure, cultural values, economic diversity and everyday human behavior. This design studio aims to introduce students to the fundamentals of **housing design** at both **unit level** and **community level**, with a focus on **social interaction, cultural responsiveness, and varying lifestyle needs** of different income groups.

Students will design individual dwelling units for **Low Income Group (LIG)**, **Middle Income Group (MIG)** and **High Income Group (HIG)**, and then integrate them into a **cohesive housing community**.

Learning Objectives

By the end of the studio, students should be able to:

- Understand housing as a response to **social, cultural, and economic diversity**
- Design **efficient dwelling units** with appropriate spatial standards
- Translate **user needs and lifestyles** into architectural form
- Explore **housing typologies** and their impact on social behavior
- Develop basic skills in **site planning, clustering, circulation and open spaces**
- Integrate **privacy, community interaction, and hierarchy of spaces**

Project Brief

Students are required to design a master plan and housing units of **different income groups** comprising **LIG, MIG, and HIG units**, addressing different spatial needs, lifestyle patterns, and their socio-cultural aspects. The three categories of housings that need to be developed are one for the private real **estate developer, corporate housing** for the multinational company employees and the **government housing** for the Navsari Agriculture university staff members.

PART A: INDIVIDUAL HOUSING UNITS

Students must design **three individual typologies of dwelling units**, each responding to its respective income group and lifestyle.

1. Low Income Group (LIG) Unit

- **Carpet Area: 50 sq.mt**
- **Typology: Apartment unit**
- **User Profile:**
 - Small family (3–4 members)
 - Economical, compact living
- **Design Emphasis:**
 - Efficient space utilization
 - Multipurpose spaces
 - Natural light and ventilation
 - Shared services and circulation

2. Middle Income Group (MIG) Unit

- **Carpet Area: 100 sq.m**
- **Typology: Row House**
- **User Profile:**
 - Nuclear family (4–5 members)
 - Balance between privacy and community
- **Design Emphasis:**
 - Clear public–private zoning
 - Indoor–outdoor relationship
 - Individual identity within a collective setting

3. High Income Group (HIG) Unit

- **Carpet Area: 150 sq.m**
- **Typology: Individual Bungalow**
- **User Profile:**
 - Affluent family with higher space standards
- **Design Emphasis:**
 - Privacy and exclusivity
 - Hierarchy of spaces
 - Landscape integration
 - Flexibility and personalization

PART B: HOUSING COMMUNITY DESIGN

Students must integrate the above unit types into a **single master layout**.

Housing typologies

- **32 LIG units** (Apartments)
- **16 MIG units** (Row Houses)
- **8 HIG units** (Bungalows)

Total Units: 56 Dwelling Units

Site Planning Considerations

- Hierarchy of public, semi-public and private spaces on site planning level
- Pedestrian and vehicular circulation
- Community open spaces and interaction zones
- Privacy gradients across income groups
- Integration rather than segregation of income groups
- Climate-responsive orientation

Social & Cultural Emphasis

The design should respond to:

- Daily social interactions
- Cultural practices and family structures
- Shared spaces such as courtyards, streets, and community nodes
- Safety, inclusiveness, and accessibility
- Respect for socio-economic diversity

Exercise:

Students will be working in a group of three for the development of master layout plan as per the given clients and then each student will be working on the design of single typologies of units.

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Architectural drawings requirements as below:

- Master plan (scale 1:200)
- All level floor Plans of units (scale 1:50)
- 2 no. building Sections (scale 1:50)
- 2 no. site sections (scale 1:50) not same as building sections
- 4 no. elevations of buildings (scale 1:50)
- Rendered 3d visuals of different spaces as per revised drawings

Instructions for students:

- All students must compose their final drawings presentations **in A1 Landscape only**.
- All the process models and concept sheet should be brought for discussion for final review.
- **Final model for the housing design (in group of 3) shall be made on scale 1:200 and house design on scale 1:50 respectively** with details like door and window openings, architectural projections etc. to be shown properly.
- All the drawings should have proper nomenclature of all spaces showing all levels, dimensions, openings etc.

Expected Outcome:

The expected outcome from the student will be:

- To develop socially responsive spaces that can enhance the life of the users.
- To understand space optimizations as per user experience design.
- To integrate the elements of architecture design with efficient space design.
- To develop architecture that is site responsive and caters to the existing context.
- To detail out and draw various construction details as per the climatic needs.

G. Evaluation criteria:	(Total Marks: - 420)
The evaluation break up is as follows:-	
Concept/Theme Development + Perception	- 60
Design Development	- 80
Design Detailing	- 80
Overall drawings and its legibility	- 80
Final Design & Presentation	- 120

A	Total No. of Students registered for the TEE Examination of the Course:	
B	No of students absent in the Examination:	87
C	Enrollment No of students absent in the Examination:	00
D	Total No of students appeared in the Examination:	87

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E	Name of Examiners:	Sign
1	Prof. Persi Engineer	
2	Prof. Vishal Mashruwala	
3	Prof. Chintan Shah	
4	Prof. Zeenia Engineer	
5	Prof. Mahesh Nagecha	
6	Prof. Labhu Vaghasia	
7	Prof. Jay Tamakuwala	
8	Prof. Micky Solanki	

EXAMINATION QUESTION PAPER Analysis for curriculum coverage and BLOOM'S TAXONOMY learning level

TASK DESCRIPTION		Weightage either in % or Marks- In this question paper	Chapter/Module No. as per Approved curriculum specified	Mapping with CO (Course Outcome as per Approved curriculum)	Cognitive Level (As per Revised Bloom's Taxonomy) R/U/Ap/Ay/E/C
1	Design exercise	05%	Module 01	CO no. 01	R + U
2	Case study & Design Program	05%	Module 01	CO no. 01	R + U
3	Conceptual Design	10%	Module 01	CO no. 01	Ay
4	Design Development	20%	Module 01	CO no. 02	Ay + E
5	Workshop based exercise	10%	Module 02	CO no. 03	Ay + U
6	Design Development	20%	Module 02	CO no. 02	Ay + E
7	Comprehensive Final Design & Presentation	30%	Module 02	CO no. 04	C

Learning level coverage as per curriculum analytics (from above mapping)				Curriculum specified content coverage analytics (From above mapping)			
Blooms level		As per curriculum - either in % or marks	In this paper: either in % or marks		chapter /module number	As per curriculum : either in % or marks	In this paper: either in % or marks

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Remember	R				1		
Understanding	U	25%	25%		2	25%	25%
apply	Ap	25%	25%		3	25%	25%
analyse	Ay	25 %	25 %		4	25%	25%
evaluate	E				5		
create	C	25%	25%		6	25%	25%

