

DISSERTATION SEMESTER 9th Academic Year 2022-23

DAYANAND COLLEGE OF ARCHITECTURE LATUR

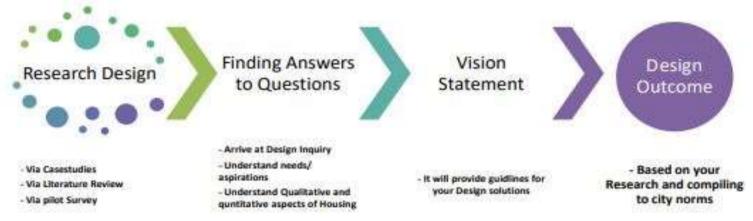
ADS BRIEF: Subject ARCHITECTURAL DESIGN – 5TH YEAR – Semester IX – AY 2022-23 Subject Faculty: -Ar. Renuka Shivalkar

THEME- HOUSING

Course Objectives: Understanding typologies of housing in Urban Areas. Understanding quantitative and qualitative aspects of mass housing. Understanding user aspirations and user affordability Expected Course Outcome Design of housing schemes in urban area, along with necessary infrastructure, services, and amenities.

Housing Scenario – Latur Through this project we will gather systematic information of existing and proposed housing in Latur. We will analysis peoples' aspirations, needs, affordability, preferences in terms of housing.

PROCESS: Students will arrive at answers for the questions below from their case studies, research and survey. These answers should then be concluded in a Vision Statement, which will become the guiding point of design for the semester.



- A. Key Questions to initiate the pre study inquiry:
- B. Context and Current demography:
- C. Collection of data and preparation of socio-economic profile
- D. Answer through Literature review Research Design Via

B. Architectural Caste Studies:

a. SUBLIME ORDINARINESS: Housing Project by DCOOP Architects

b. House 8 by BjarkeIngels

c. SOS Children Village in Tadjourah, Djibouti Urko Sanchez Architects

d. Peter Pichler'sfigure-of-eight-shaped housing complex

e. Kanchanjunga apartments

f. Seoul apartment block by Archihood WXY

g. Unite'd habitation, Le corbusier.

h. Habitat 67

i. The interlace by OMA / ole scheeren

j. Monterrey Housing - Nuevo León, Mexico

Points to consider in Case Study

Note: These case studies are to be done on A3/A4 size tracings with Print of Drawings below. Use different color markers / Pencil colors to mark following things. Each Pointer will have different sheet (Tracing and Print)

• Concept of Design

• Contextual Harmony (Site Location with neighboring buildings marked)

• Topography if any and how architect uses this topo.

For structure design

- Program Detail
- Access-Circulation
- Corridor and passages on all floors
- Services areas on all floor (Staircase, Toilets, Service rooms)
- Light in all spaces
- Ventilation of all spaces (With use of Plan, Section or sketches whichever is relevant)
- Section analysis for program, Light, Ventilation, Height with reference to human height.
- Materials used of Building
- Typology of structure

Books for reference:

• New Concepts in Apartment Buildings [architecture]Book by Annette Gigon (PDF Available)

• The Sustainable Tall Building By Philip Oldfield

• Apartment Buildings Book by Chris van Uffelen Mane : a new initiative in public housing for Karnataka's middle income and weaker sections.

• Multifamily Housing: Creating a Community

Indirect Reference books:

• Paris Mansions and Apartments 1983 (PDF Available) • Tall Buildings Structural design of concrete buildings up to 300 m tall (PDF Available) • Precedents in Architecture (Available in DCA Library)

C. Housing Site Visits in Latur

Sr. No	Site Name	Site Location	Typology
1	Police Colony	Babhaigaon	EWS/ LIH Housing
2	MHADA Housing	Near Harangul Railway Station	EWS/ LIH Housing
3	Lahoti Row Houses	Ausa Road	Row Houses Typologies
4	Ajinkya City: Phase 2	Near D Mart	Row Houses Typologies
5		Near D Mart	MIG Housing
6	Navandare Housing	Ausa Road	Township

Pointers for Site Visit: Make scaled Sketches in A3/A4 Plan sheet note book.

Minimum 2 plan, 2 Section, 1 elevation and 2 details sketches per site is expected from each student.

Sketches of Floor Plan, Section (With Approx Dimension)

Sketches of special Details observed (Example: Firefighting, Refugee Area, Compound, Podium, Toilet etc)

D. Site: Indraprasta , Latur Ausa Road, Latur



Cad File of the Site is attached with this draft.

- Site Area to be considered : 16000 Sq.M
- Maximum FSI to be considered: 2.55 (Basic FSI 1.1 + Premium FSI- 0.30 + TDR Loading -1.15)

Therefore Max. Built up Area: 40,800 Sq.M

Note: It is not compulsory to utilize complete given FSI, But your design should not exceed the max FSI. You also need to fulfill all given Program requirements

E. Program Requirement :

Land for Roads 25-30%

Amenities Required

- Recreational Ground Min 10% of Site area
- Community Center/ Club House: 500 Sq.M.
- Shops: Min 10 (15- Sq.M Each Min)
- · Other Leisure spaces (Swimming pool, Temple etc) As per your design and concept

Parking:

	4 Wł	eeler	2 Wł	eeler
	Parking Req	No of Parking	Parking Req	No of Parking
EWS	1 per 4	20	1 each	20
LIG (Low Income Group Housing)	1 per 2	60	1 each	60
MIG	1 Each	80	2 per 1	160
Row Houses	2 per 1	20	2 per 1	40
Total	3	180		280

Typology of Apartments:

- EWS (Economically Weaker Section) Housing Maximum Area 350 Sq.M
- LIG (Low Income Group) Housing
- MIG (Middle Income Group) Housing
- HIG (High Income Group) Housing

	Min Area Per Apartment	Max Carpet Area per apartment Sq.M (Carpet Area)	No of Apartments
WS	Asper	35	70-80
LIG	Bylaw	60	100-120
MIG	Room req.	150	70-80

HIG	200	5-10	
Total		245-290	

Note: Program /Space / Room requirement per family is not provided. You can decide what spaces rooms to provide. Follow above table for total apartment area requirement and No of Apartments to be provided from each section on given site.

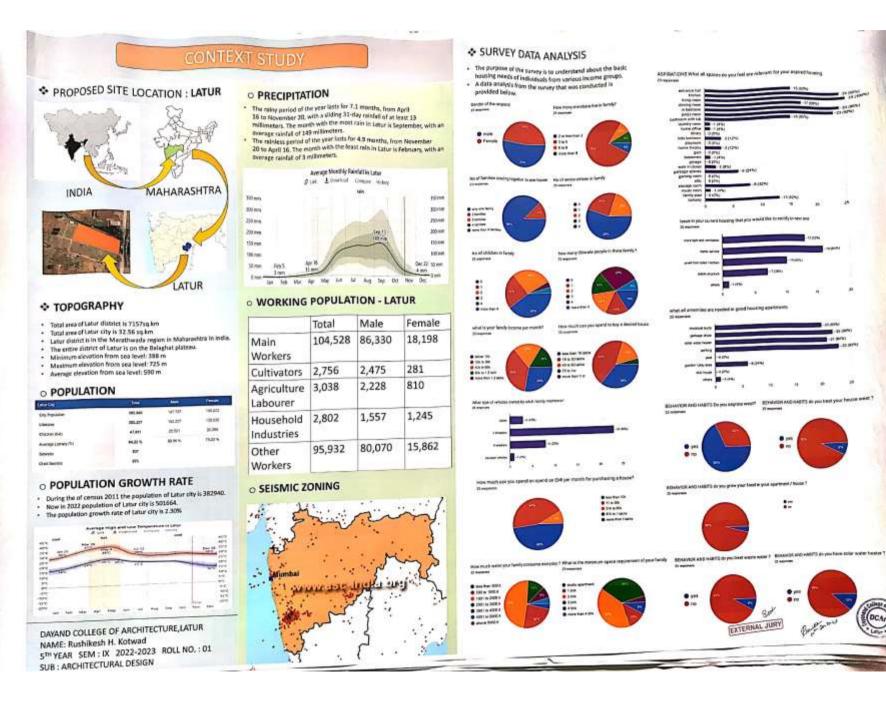
Schedule:

Sr.No	Date	Day	Details of Topic to be covered	Submission
1	17-Oct-2022	Monday	Introduction to Topic and Discussion of program in detail Lecture on Pre Study and Data Collection Site Visit to Ausa Road Site	
2	18-Oct-2022	Tuesday	Pre Study Surveys	
3	19-Oct-2022	Wednesday	Report Preparation of Pre Study and Analysis Discussion on Architecture Case Studies	Submission of Pre Study – 10 Marks
4	20-Oct-2022	Thursday		
	21-Oct-2022	Friday		~
	22-Oct-2022	Saturday		
_	24-Oct-2022	Monday	-	
1	25-Oct-2022	Tuesday		
2	26-Oct-2022	Wednesday		1
3	27-Oct-2022	Thursday		
4	28-Oct-2022	Friday		1
	29-Oct-2022	Saturday		
	31-Oct-2022	Monday	Preparation of Architecture Case Study Report	Submission of CS Sheets – 10 Marks
1	1-Nov-2022	Tuesday	Site Visits to Latur Housing Projects and on-Site sketching . Part 1	
2	2-Nov-2022	Wednesday	Site Visits to Latur Housing Projects and un-Site sketching. Part 2 Compilation of all Site Visit Sketches	Submission of Site Visit Sketches sheets – 10 Marks
3	3-Nov-2022	Thursday		
4	4-Nov-2022	Friday		
	5-Nov-2022	Saturday		
	7-Nov-2022	Monday	Discussion on Literature Review for	<u>.</u>

			Housing. Division of work per Student Working studio	
1	8-Nov-2022	Tuesday	Presentation of Literature Review by each Student	Presentation – 10 Marks
2	9-Nov-2022	Wednesday	Introduction to ADS Project Doubt solving Evolution of Concepts by Each Student	
3	10-Nov-2022	Thursday		
4	11-Nov-2022	Friday		
	12-Nov-2022	Saturday		
	14-Nov-2022	Monday	Presentation of Concept Sheets by each student to the class	Sheet and Presentation Marking – 10 Marks
1	15-Nov-2022	Tuesday	Working Studio: on Bubble Diagrams, Rough Sketches , Line Diagrams, Site Plan	
2	16-Nov-2022	Wednesday	Presentation of Bubble Diagrams, Line Diagrams, Site Plan	Marking – 10 Marks
3	17-Nov-2022	Thursday	a na sa n	2.10036145
4	18-Nov-2022	Friday	3	
20	19-Nov-2022	Saturday	1	
	21-Nov-2022	Monday	Working Studio: For Development of Plans	
1	22-Nov-2022	Tuesday	Working Studio: For Development of Plans	
2	23-Nov-2022	Wednesday	Presentation and Submission of Plans	Plans' Marking – 10 Marks
3	24-Nov-2022	Thursday		
4	25-Nov-2022	Friday		
	26-Nov-2022	Saturday		
	28-Nov-2022	Monday	Working Studio: For Development of Sections	
1	29-Nov-2022	Tuesday	Working Studio: For Development of Sections	
2	30-Nov-2022	Wednesday	Presentation and Submission of Section	Sections' Marking – 10 Marks
3	1-Dec-2022	Thursday		
4	2-Dec-2022	Friday		
	3-Dec-2022	Saturday		
	5-Dec-2022	Monday	Working Studio: For Development of	

		8	Elevations	
1	6-Dec-2022	Tuesday	Working Studio: For Development of Elevations	
2	7-Dec-2022	Wednesday	Presentation and Submission of Elevations	Elevations' Marking – 10 Marks
3	8-Dec-2022	Thursday		
4	9-Dec-2022	Friday		
	10-Dec-2022	Saturday		
	12-Dec-2022	Monday	Working Studio: For Development of Details	
1	13-Dec-2022	Tuesday	Working Studio: For Development of Details	
2	14-Dec-2022	Wednesday	Working Studio: For Development of Details	Details' Marking - 10 Marks
3	15-Dec-2022	Thursday	8	
4	16-Dec-2022	Friday		
10	17-Dec-2022	Saturday		
	12-Dec-2022	Monday	Working Studio: Pre Final Sheet Rendering	
1	13-Dec-2022	Tuesday	Model Making	
2	14-Dec-2022	Wednesday	Internal Jury Marking – 25 Marks	Internal Jury Marking – 25 Marks
3	15-Dec-2022	Thursday		
4	16-Dec-2022	Friday		
	17-Dec-2022	Saturday		
	19-Dec-2022	Monday	Working Studio: Discussion, Rectification, Final Rendering and Model Making	
1	20-Dec-2022	Tuesday	Working Studio: Discussion, Rectification, Final Rendering and Model Making	Final Jury: 125 Marks
2	21-Dec-2022	Wednesday	Final Jury	
	Total Marks			250 Marks

Student 1 Portfolio : Rushikesh Kotwad



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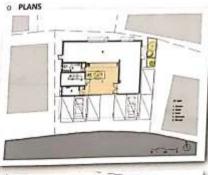
INTERNET BASED CASE STUDY 1. SEOUL APARTMENT BLOCK BY ARCHIHOOD

♦ INTRODUCTION





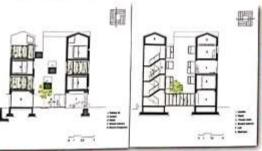
- · ARCHITECTS: Archihood WXY
- . AREA : 596 m
- + YEAR : 2015
- + PHOTOGRAPHS Woohyun Kang
- The project is located in Bokjeong-dong, South Korea.
- Being an area that has a couple of universities nearby, a demand for student studio-type accommodations have
- significantly risen in the past years.
 Being contiguous with Seoul, the office working, whitecoltaned demographic has also joined the frenzy and has been a factor in the demand far residential units as well.
- Because of this, the area has become very crowded with multi-dwelling units, studios and student accommodations.







- The concept of the Gap house is to support new life style of the young, single demographic household by sharing common spaces such as the living room, kitchen, and dining area. Archihood WXY focused on a design that creates a balance between the common and
- Private spoces deeply condering the share house americs, the balance is coordinated by the outdoor space which is defined to "The Gap' a design which helps bring in nature to the residents and encourage interaction and minging amongs housemates.





INTERNET BASED CASE STUDY 2. MONTERREY HOUSING / ELEMENTAL

O PLANS

INTRODUCTION



- ARDHITECIS: Elemental
- AREA : 6591 m2

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- YEAR : 20130 PHOTOGRAPHS : Ramiro Ramirez
- Santa Catarina is a city of 250,000 inhabitants, located in the state of
- Nuevo Lede, in the northwest of Mexica. • This project is Dementa's first outside of Chila
- The Government of Nuevo León, Mikko, contraisdance) them to design a group of 70 hereits on a site of 6 hercten in a midle cluss naighborhood in
- Sints Catalitia. • The required density suggested the application of the topology developed for loadque.
- However, the climate in Sonia Catarina is very different from the northern desired climate of Chile.
- The 600 mm of annual minist required them to adapt our properties to this new quarties,

app.



STAMP

SIGN

+ 1





CASE STUDY

SITE LOCATION : LATUR





LATUR

*** TOPOGRAPHY OF LATUR**

- Total area of Latur district is 7157sq.km
- Total area of Latur city is 32.56 sq.km
- Latur district is in the Marathwada region in Maharashtra in india.
- · The entire district of Latur is on the Balaghat plateau.
- Minimum elevation from sea level: 388 m
- Maximum elevation from sea level: 725 m
- Average elevation from sea level: 590 m

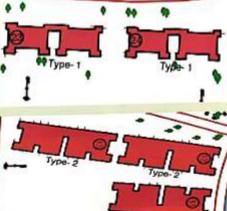
O SITE CONTEXT :

- + Site location : 23 acres site located in babhalgaon, latur. · Approach : 100 ft ring ational highway Road, . It is easy to
- approach from nanded naka. Topography : The site is almost flat.

DAYAND COLLEGE OF ARCHITECTURE, LATUR NAME: Rushikesh H. Kotwad 5TH YEAR SEM : IX 2022-2023 ROLL NO. : 01 SUB : ARCHITECTURAL DESIGN

















DEMERITS

- ROOM SIZES: For trying to be increase in number of moms standard room sizes were compromising. NEGATIVE SPACES : percentage of Construction in the site is very less 10.1
- In adequate fire safety.
- No Proper provision of kit services. .
- no enough space for recreational areas. .
- no except space for recreational artist. bad quality of construction as well as construction material used. No Rain water harvesting. N O STP plant or west water treatment plant provided .
- .
-







The site will be demolished in future. There will be a new praposel for the police housing society, with the all design aspact and proper provision of at least basic services.



EXTERNAL JURY



