Criterion 1.3- Curriculum Enrichment

1.3.1

CROSS CUTTUNG ISSUES

Architectural Design briefs

MAHARSHI KARVE STREE SHIKSHAN SAMSTHA

Affiliated to Savitribai Phule Pune University.(SPPU)
University Affiliation No.: PU/PN/ARCH/109/1994.
Approved by:
*Council of Architecture.(COA),New Delhi
*All India Council for Technical Education (AICTE)
*National Assessment & Accreditation Council(NAAC)

BNCA
DR.BHANUBEN NANAVATI
COLLEGE OF ARCHITECTURE
FOR WOMEN
Gate No:04, BNCA Campus,
Cummins College Road,
Karve Nagar, Pune 411 052.
Ph: +91 20 25474062 / 25476966
E-mail:mail@bnca.ac.in, www.bnca.ac.in

Criterion 1.3- Curriculum Enrichment

1.3.1

CROSS CUTTUNG ISSUE: HUMAN VALUES

Architectural Design briefs

DESIGN BRIEF FOR SEMESTER-III

S.Y.B.Arch | Studio A | 2022-23

Community Centre at Udvada, Gujrat

Design Brief

The town of Udvada, located in the state of Gujrat, in the Valsad district reflects the culture and history of Parsi community and also their first settlement in India. The town marks the history of Parsi community after leaving their homeland and arriving to the western coast of India somewhere around 8th century, near Gujrat carrying the sacred fire, to preserve an ancient religion, Zoroastrianism. Dedicated to this history, their beliefs and culture, Udvada is the throne of the "Iranshah Fire"

The town today is not just trapped in a time warp but is a frozen frame, with around 120 traditional houses. But with current development pressures, abandonment of houses, out-migration, most of the houses only continue as built manifestations with Parsi community moving out and settling in different parts of the country and world.

Thus to revive the town, the Studio's design brief looks at proposing a Community Centre, that would act like a magnet, attracting the young Parsi community members and also promote tourism. Since most of the motels and houses only focus on the Parsi community, other tourists or visitors usually prefer to stay at Daman, Vapi and Diu. The proposal also looks at addressing this issue and introduce stay facility for other tourists. The proposed Community Centre would give opportunities of social interaction for the elderly members of the town, promote the local cuisine and art, develop spaces for celebration of their festivities and thus revive the town.

Area Requirements:

Sr.no		Area
1	Open Parking for 10 four wheelers, 5 two wheelers, small tempo and Security cabin	15sq.m
2	Toilet facility and changing room for drivers and cleaners	50sq.m
3	Information Kiosk	70sq.m
	(Counter, waiting area, display of brochures/maps/leaflets about Udvada and surrounding areas, locker facility and 2 toilets and Admin area)	
4	Souvenir shop	30sq.m
	(Display of authentic Parsi art, craft and food products)	
5	Reception and Waiting area	25sq.m
6	Library and Book Café	70sq.m
	The library would include collection of books (especially Parsi literature), general reading books, magazines, periodicals etc , storage space, librarian's counter and reading area. And the book café would include a small pantry, display and service counter)	
7	Multi-purpose Hall	270sq.m
	(Seating capacity of 200 people, 2 rooms and toilet blocks)	
8	Cottages (30sq.m each x 6 units)	180sq.m

9	Housekeeping and Storage Facility	50sq.m
10	Kitchen, Dinning and Pantry area	150sq.m
	(The dinning area to be designed for min 40 people, along with pantry, washing area and a toilet block)	
11	Public Toilet Block	30 sq.m
	Total Area	940 sq.m
	+ Circulation Area (15%)	140 sq.m
	Total Area	1080 sq.m

MKSS's Dr. Bhanuben Nanavati College of Architecture for Women

Architectural Design V

July 21

2023

Long Assignment for Term – 1

'SAMATVA': Centre for Five Fold Path Mission, Maheshwar

V2

‘SAMATVA’: Centre for Fivefold Path Mission, Maheshwar

1. PREAMBLE

In 1944 Parama Sadguru Shree Gajanan Maharaj of Akkalkot, Kalki Avatar, (Shree) took the most potent vow at the feet of His Master, Lord Parshuram :

“I will resuscitate Vedas”

Fivefold path mission was established to reiterate the essential message of the Vedas in the form of five basic tenets They are summarized in five words:

- Yajnya : Purification of pranic content of the atmosphere through the agency of fire. This leads to purification of the mind.
- Daan : Sharing of assets in a spirit of humility to reduce attachment.
- Tapa : Self-discipline, austerities, penance of body, mind and speech for fruition of thy affirmations.
- Karma : Good action, virtuous deeds for self-purification.
- Swadhyaya : Study of Self. Who am I? For liberation.

Now Fivefold Path Mission operates several projects in India for spreading Shree Gajanan Maharaj’s message based in Madhya Pradesh, Maharashtra & West Bengal. Fivefold Path Mission is not affiliated with any religion. Its purpose is simply to spread Shree’s message of Agnihotra and Fivefold Path, the essence of Vedas. The mission is working with Manas Rural Development Institute, an NGO since May 2009 in Barwah, Dist. Khargone, Madhya Pradesh, India. The mission provides Manas technical support in disseminating the knowledge of Ancient Science of Vruksha Ayurveda and teach organic farming to the farmers.

Currently, Homa Therapy Goshala, Maheshwar, MP on the banks of Narmada serves as an administrative centre for the mission. It now intends to add a new campus at Maheshwar that shall act as a learning centre for Fivefold path. The new campus ‘Samatva’ based on the idea of ‘equanimity’ and ‘modernity’ shall cater to the changing sensibilities of today’s world at the same time shall remain rooted in the teachings of Shree. This new centre shall host all forthcoming events of the mission as well as the guests from India and abroad. It shall be a knowledge centre and shall exhibit the philosophy and works of the mission. In summary, this centre shall be place for new and old followers of the Fivefold path mission to stay, learn and practice the teachings of the mission and also act as a centre that showcases the work done by it.

Design strategy & Approach:

The overall master plan shall be divided into four main components, *Yadnyashala (*Pavilion for Homa ritual), *Vivekanubhuti* (Public outreach areas), *Sharan* (Residential units) & *Agnidhra (*Administrative facilitates).
The design needs to address Sustainability & economy issues and derive innovative solutions with special focus on interpreting abstract ideas of spirituality into architectural expression. The contextual study of Maheshwar through site visit shall reflect in the design with the lens of traditional Indian knowledge systems. This shall cover aspects of traditional town planning, movement networks, scale and proportion of streets, and response to climate. Further the site is located on a sloping terrain, the design needs to respond to this by efficient and appropriate handling of the topography, hydrology & negotiation of levels.
The overall Centre should be capable of handling large crowds during yearly events, at the same time be universally accessible to all. The architecture and landscape shall reflect the idea of spirituality and the teachings and philosophies of the mission for which it is being planned.
Finally, the design shall also help showcase the Centre its work done in the realm of spirituality as well as rural development in the form of organic farming. This shall be done by demonstrative as well exhibitive methods through the built/ unbuilt spaces.

2. SPACE PROGRAM

Project Level Information		
Plot Area	19,000	*Sqm*
Built Up Area proposed	5,700	*Sqm*
Permissible ground coverage	25%	
Recreational Open space	25%	

Following are the Space requirements for the development envisaged:

No.	Description	Unit area (Sqm)	No of units	Total Area (sq.m.)
a.	**Entrance Facility (*Agnidhara)***			
1	Reception, Entrance Lobby with waiting area	50	1	50
2	Admin office	60	1	60
3	Directors cabin with attached toilet	25	1	25
4	Manager's Cabin with attached toilet	12	1	12
5	Meeting rooms	20	2	40
6	Conference Room	60	1	60
7	Server & System manager	20	1	20
8	Store & Records	25	1	25
9	First-aid room	20	1	20
10	Pantry & Common area for sub-staff	15	1	15
11	Café	20	1	20
12	Adequate Entrance Foyer, Toilets, Janitor, Services distribution node suitably distributed			
	Total			**347**
b.	**Public outreach areas (*Vivekanubhuti)***			
1	Orientation centre with AV facility	50	1	50
2	Exhibition area	90	2	180
3	Library + Digital resource lab	200	1	200
4	Souvenir shop	10	4	40
5	Auditorium	500	1	500
6	Adequate Toilets, Janitor, Services distribution node suitably distributed			
	Total			**970**
c.	**Homa Thearapy *(Yadnashala)***			
1	Ganesh Temple	500	1	500
2	Yadnyashala	700	1	700
3	Agnihotra Workshop	120	1	120
4	Meditation area	120	1	120
5	Yoga workshop	120	1	120
6	Adequate Toilets, Janitor, Services, store, spill over areas etc			
	Total			**1560**
d.	**Residential area: Ladies and gents *(Sharan)***			
1	MD's house	200	1	200
2	Staff housing	25	4	100
3	Single occupancy room	25	8	200
4	Double occupancy room	25	8	200

5	Dormitory	85	4	340
6	Dining hall with kitchen (50 covers)	120	1	120
7	Pantry	15	2	30
8	Adequate waiting space & toilets for gents & ladies etc			
	Total			**1190**

	TOTAL SPACE PROGRAM – CARPET AREA	**4,067.00**
	Add 40% Towards Circulation, lobbies, service areas	1,626.80
		5,693.80
	TOTAL SPACE PROGRAM – BUILT-UP AREA *say*	**5,700.00**

e.	**Outdoor Area**			
1	Rainwater harvesting pond *(Jalashraya)*			
2	Planned forest area *(Aranya)*			
3	Organic farmland *(Homa farming)*			
4	Cowshed *(Goshala)*			
f.	**Engineering support services**			
1	Electrical & Telecommunication	100	1	100
2	Safety & security services	30	1	30
3	Building & furniture maintenance	30	1	30
4	Public health engineering	75	1	75
g.	**Parking**			
1	Bus		2	
2	Cars (covered)		10	
3	Scooters (covered)		40	
4	Visitors - cars		10	
5	Visitors - scooters		20	

3. OBJECTIVES

- To enable the students to comprehend organization of multiple activities or buildings within a campus and understand their relationships with each other in context to continuity of form, construction and materials, design theme, climate etc.
- To enable the students to comprehend design program with respect to Activity organization,
- Site Planning, Movement Pattern - Vehicular as well as Pedestrian in all three dimensions, scale and volume of development envisaged.
- To enable the students to comprehend architectural tools in creating and fostering of Communities through form and space making.

- To enable the students to comprehend Promoters' specific requirements vis-à-vis design alternatives available interpolating with Local Development Byelaws
- To enable the students to comprehend non-specified essential requirement generated by the Development envisaged.
- To enable the students to make observations on the functioning of similar development after making field study and relate the various findings in the Project.
- To integrate function, structure and services in a building, choice of structural system and resultant effect on visual form or aesthetics of building
- To understand the intangible associations with the Campus environment as a designer and to try to maximize the comfort level.
- To bring about awareness in the realm of ecology, environment, and sustainable design practices

4. PROJECT DATA - CODES TO BE FOLLOWED

- Ground coverage shall be 25% of Net Plot Area
- Maximum height of building 18.00 M
- Setback of 6m shall be applicable from all sides.
- Maximum floor to floor height shall be 4.20 m for non-assembly areas.
- No Exemptions to computation of Built-up Area.
- Universal design codes and Fire safety codes shall be applicable.
- Balcony/ Terraces area is not exempted from built up area calculations.

5. SUBMITTALS GUIDELINES

- All floor plans, sections and elevations shall be at 1:100 scales; all site plans and site sections shall be to 1: 200 scale; all details shall be drawn to appropriate scale.
- Project Layout plan may be drawn to 1:500 scale.
- Computer generated graphics and drawings shall be printed to appropriate scales as mentioned above.
- Detail model of the proposal at 1: 200 scale
- At least **two** design defining details need to be worked out based on all the allied subjects learnt so far as applied design. Allied subjects such as Humanities, Climate, Technology, Material Science, Services etc.

6. RECOMMENDED CASE EXAMPLES – ANTECEDENTS STUDY

PRIMARY SOURCE SOME SELECTED EXAMPLES
Students are advised to visit the selected examples as per the Groups.

- *Jetavan Spiritual Center, Vari, Maharashtra by Sameep Padora & Associates*
- *Osho International Meditation Resort, Pune by Hafeez Contractor*
- *Vajrasana Buddhist Retreat Center, Walters & Cohen Architects*
- *Ved Bhavan Pune*
- *Architecture to connect with the Divine: Design of a Meditation Centre of Inner Peace*
- *Chinmay Vibhooti, Mulshi, Pune*

- *Firodiya Center for Inspiration, Ahmednagar by Studio A dvaita*

Note: Each pair of groups must prepare and present primary study findings to the class from the above suggested case examples.

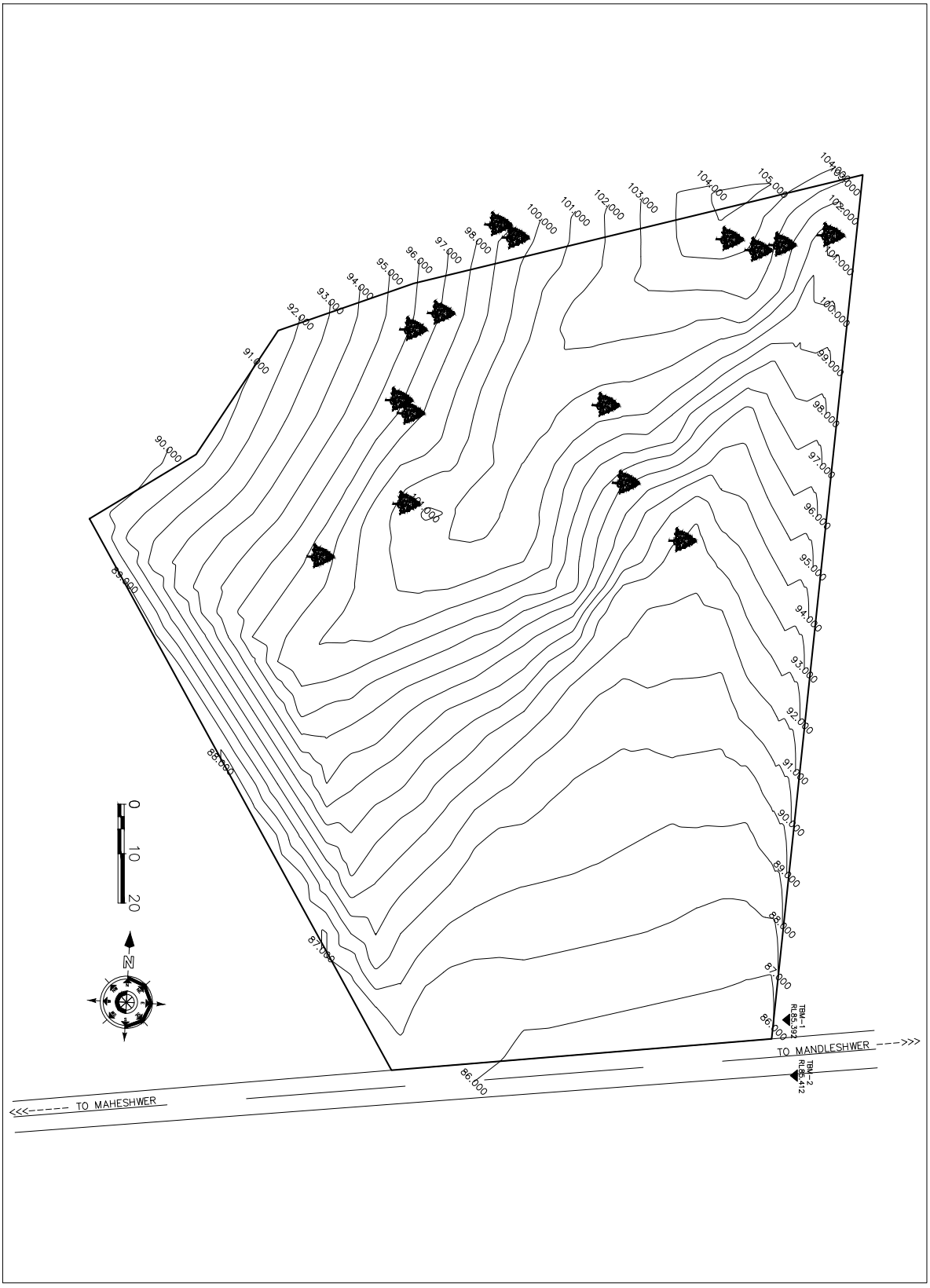
SECONDARY SOURCE SOME SUGGESTED EXAMPLES

Students are free to choose any other examples that have learning potential from any published sources like books, journal, magazines, or internet sources.

- *Center for the Blind and Visually Impaired by Taller de Arquitectura-Mauricio Rocha – Mexico*
- *Matru Mandir, Auroville*
- *Ishayoga Centre, Coimbatore*
- *Vipassana International Academy, Igatpuri*
- *Krishnamurti Foundation, Chennai*
- *Isha Yoga Centre, Velliangiri Mountains*
- *Parmarth Niketan, Rishikesh*
- *Sivananda, Kerala*
- *Transcendental Meditation, Delhi*
- *Root Institute, Bodhgaya*
- *The Art of living International Centre,Bangalore*
- *Smritivan Earthquake Memorial Museum, Bhuj by Vastushilpa Sangath*
- *Temple of Steps, Nandyala by Sameep Padora & Associates*
- *MARUTI MANDIR – Home for GOD on Earth, Nashik by Within N Without*
- *Bahá'í Temple, Penalolen, Chile by Hariri Pontarini Architects*
- *Temple in Stone and Light, Barmer by SpaceMatters*

7. PROJECT SITE

The Project site is located in revenue village of Maheshwar in the Khargone district of Madhya Pradesh. The site is located and accessed by the state highway- 38 on the southern side. The site is on a sloping terrain and is surrounded by open plots on all three sides. The highest point on the site offers view of all of the town along with the panoramic view of Narmada river. The site admeasures 1900 Sq. M. approx. with sloping terrain and a few trees as marked on the site plan.


104.000
105.000
103.000
102.000
101.000
100.000
99.000
98.000
97.000
96.000
95.000
94.000
93.000
92.000
91.000
90.000
89.000
88.000
87.000
86.000
0
10
20
N
TBM-1
RL85.921
TBM-2
RL85.412
TO MANDLESHWER
TO MAHESHWER

MKSSS's Dr. Bhanuben Nanavati College of Architecture for Women

Academic Semester – July 2023 to Dec 2023

Architectural Design IV	July to Dec 2023
Long Term Assignment for Semester – V Center for Holistic Healing at Rajapur, Ratnagiri.	

Center for Holistic Healing at Rajapur, Ratnagiri.

Introduction:

Wellness is the act of practicing healthy habits on a daily basis to attain better physical and mental health outcomes. A wellness retreat is all about the various therapies, spa, meditation, and other activities that foster your well-being. There is a rise in medical tourism with more and more people are now turning towards alternative medicines / practices making use of traditional knowledge and Indian wisdom of wellness catering to body, mind and spirit, both for therapy as well as for holistic healing.

It offers a wide range of treatments for infirmities, panchakarma treatments, naturopathy, yoga, meditation, and so on. Specialities: They specialise in Ayurvedic treatments, Ayurvedic body care, diet and medication, and Ayurvedic beauty care.

Aim:

1. To connect architecture and nature through planning, landscape and outdoor-indoor space integration.
2. To understand Architectural Design as a Process and taking design decisions based on Context, Climate and Services.
3. Efficient use of building elements and systems to have a Sustainable Design Approach.

Design Objectives:

To understand Architectural Design as a process of generating design brief and taking design decisions based on the following aspects:

- Socio-Cultural Aspects: To introduce students to socio-cultural aspects like lifestyle,

culture, traditions, and their effect on architectural design etc.

- Aesthetics: To understand the Aesthetic aspects of Design (visual and experiential) along with spatial attributes (scale and proportions, volume, texture, light and shadows, etc.) and formal characteristics.(profile, base, corner, termination).
- Anthropometry & Function: To address functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity, essential adjacencies of spaces, ease and efficiency of circulation, light, ventilation, user-space relationship, vertical connections)
- Climate: To understand the Climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain, through passive strategies.
- Building Material and Construction Technology: To study relevance of various building materials to a project, to get introduced to various expressions of a building material, to introduce a student to the construction technologies relevant to the building materials chosen, to understand the scope and limitations of a building technique to achieve the desired form and space.
- Building Services: To understand the spatial and structural implications of basic services involved in building design.
- Site : To understand the site and its context, both immediate and wider, in order to enable students to take decisions of zoning, circulation within site, distribution of built and open spaces, activity relationships and adjacencies, and views.
- Universal Design: To understand the concept and principles of universal design.
- Precedent Studies: To introduce the students to learn from case, referral, live studies -

process of observation, analysis, documentation and deriving inferences.

Course Outcome

CO1	To identify campus design through study of various types of campus (Ex. Institutional, Industrial, Commercial, Administrative, Health, Hospitality etc.,)
CO2	To identify and analyze precedent studies with respect to function and context
CO3	To Identify functional and recreational spaces for the project.
C04	To explain and describe the adjacency of various functions and drawing a bubble diagram
CO5	To Develop a space programme for built spaces based on the brief
CO6	To analyse a site with respect to buildability, vantage Points.
CO7	To analyze the larger context of the site surroundings and draw the zoning diagram.
CO8	To Apply Universal Acessibility strategies at the campus.
CO9	To Understand and Apply knowledge of vehicular movement to define parking lots and roads with adequate turning space
CO10	To choose and apply structural systems of building as a composite of Roofing, Spanning, Opening and Support Systems.
CO11	To allocate Spaces and Movement of MEP Services
CO12	Apply strategies for climate responsive (Fenestration Wall and roof assemblies, Weather shades/Shading Devices, Natural Ventilation strategies) design.
CO13	To select landscape elements to manage Sun, Wind and Light
CO14	Assign levels to building considering the cut-fill implications
CO15	Construct a narrative to explain the design and the design process using graphical and verbal tools
CO16	Use study models as aids to design process and not just as presentation tools.

Studio methodology

1. Emphasis on Process and consistent work
2. Methods of Generating Planting Pallet with respect to Indigenous Plants
3. Experiential Learning
4. 3-days hands-on workshop along with Case studies.

SPACE PROGRAM

Project Level Information

Site Area = 48,250 sq.m.

Open Space & Amenity Space (10 + 15% of total plot area)= (4825+7237)=12,062 sq.m

Net Plot Area = 36,188 sq.m

Permissible FSI= 0.75

Permissible Built-up area = 27,141 sq.m

Permissible Ground Coverage (30% of Plot) = 14,475 sq.m

User's information

Note: the numbers mentioned in the table below to be considered as avg. footfall per day.

Sr No	Title	No of users
1	IPD patient	40
2	OPD patient	20
3	Visiting Doctor	4
4	Resident Doctor	6
5	Visiting Therapist	6
6	Resident Therapist	4
7	Medical Helper	15
8	Service staff	10
9	Admin staff	15
10	Security staff	6
11	Technicians	6
12	Directors - managers, owner, trustees	5
13	**Total users**	**137**

Area Requirements

Note: All the areas mentioned in the table below are approximate.

Sr no	Discription	No of units	Area per unit	Total area
A	**Management zone**		**sqm**	**sqm**
1	Reception	1	60	60
2	Back office (Registration, accounts etc.)	1	100	100
3	Storage	1	50	50
4	Staff room	2	30	60
5	Security room	1	40	40
6	Server room	1	30	30
7	Energy room (With generator)	1	120	120
8	Common Toilets (For staff)	2	30	60
9	Pantry + dining space	1	25	25
10	Entrance lobby	1	25	25
11	Waiting area	1	150	150
12	Pharmacy	1	100	100
13	Medicine storage	1	60	60
14	Information and display area	1	100	100
15	cafeteria (Kitchenette + Seating)	1	200	200
16	common toilets (for visitors)	1	50	50
	Total Area			**1230**
B	**Therapy Zone**			
1	consultancy room(With washbasin)	7	15	105
2	Doctor's lounge	2	25	50
3	Common toilet for doctors	2	10	20
4	Therapy room (With toilet)	7	20	140
5	Therapy room (Without toilet)	7	20	140
6	Storage room (Dry & cold storage)	2	10	20
7	common toilet for patients	1	10	10
	Total Area			**485**
C	**Amenties Zone**			
1	Multipurpose hall	2	150	300
2	Auditorium(For 300 capacity)	1	500	500
3	Worship place	1	100	100
4	workshop room	5	25	125
5	Locker room	2	10	20
6	changing and bath area	2	30	60
7	common toilet	2	20	40
8	staff area	1	20	20
9	Central Kitchen	1	100	100
10	Dining area	1	250	250
11	Storage for kitchen	1	50	50
12	Utility space	1	30	30
13	Indoor sports hall	2	50	100

14	Souvenir shop and cafe	1	50	50
	Total Area			1745
D	**Heigyn zone**			
1	Medicine lab	4	20	80
2	Admin area(with changing room& toilets)	1	50	50
3	R&D centre	2	50	100
4	Pathology lab (With waiting space & toilet)	2	60	120
5	Laundry (without drying area)	1	80	80
	Total Area			**430**
B	**Residential Zone**			
1	Staff quarters- (technicians, security, service)	15	30	450
2	Doctor's residence	6	40	240
3	Therapist's quarter	5	30	150
4	Director's bungalow	5	100	500
5	Patient's stay 1 - (dorm for 6 occupancy)	4	50	200
6	Patient's stay 2 - (room for double occupancy)	15	30	450
6	Patient's stay 3 - (room for family occupancy)	10	45	450
	Patient's stay 4 - (private guest house)	5	75	375
	Total Area			**2815**
E	**TOTAL CARPET AREA**			**6705**
F	**Circulation area (15% of TOTAL CARPET area)**			**1005.75**
G	**GRAND TOTAL CARPET AREA**			**7710.75**
	Outdoor area			
	Parking space		as per design	
	4 wheeler	60		
	2wheeler	100		
	bus	5		
	cycle	200		
	accessible	10		
	emergency vehicle	3		
	internal campus parking (Green vehicles)	20		
	Open space			
	Theme gardens			
	Outdoor activity space			
	Sports area			
	Water storage tank			
	Upcycling zone (Water, compost treatment			

Site Plan: Site Area – 48,250 sq.m.

SUBMITTALS GUIDELINES

1. All floor plans, sections and elevations shall be at 1:200 scale
2. All site plans and site sections shall be to 1:1000 scale
3. All design defining working details shall be drawn to appropriate scale.
4. At least two design defining details need to be worked out based on all the allied subjects learnt so far as applied design. Allied subjects such as Humanities, Climate, Technology, Material Science, Services etc.
5. Computer generated graphics and drawings shall be printed to appropriate scales as mentioned above.
6. Exterior perspective view
7. Detail model of the proposal – physical or software (rhino, sketch-up,etc)
8. Use of Thermocol / Styrofoam is prohibited for assessment submittals.

ASSESSMENT CRITERIA

1	Pre-design Modules Understanding, Specificity Concerns and Strategies of Development.	10 %
2	Process of Development of Design – Unit Design iterations and Selected Plot Site Development.	20 %
3	Compliance to Submittal Requirement and Quality of Submittals.	10 %
4	Integration of Passive Design Strategies for Warm & Humid Climate	20 %
5	Functional, Services and Structural Integrity in the Development Proposed.	20 %
6	Innovative Design Concept Envisaged with Respect to Development Proposed.	20 %

Note – Final Internal Marks will be distributed as: 60% for Progressive marking (process sheets) and 40% for final internal Submission.

Architectural Design V

JULY 2023

2023

Shades of Youth – YOUTH CENTRE , Pune

Campus in urban Spatial Setup

STUDIO – D

"We cannot always build the future for our youth, but we can build our youth for the future" - Franklin D. Roosevelt

YOUTH CENTRE

PREAMBLE:

A youth centre plays a crucial role in a city by providing a safe and inclusive space for young people to gather, learn, and engage in positive activities. It serves as a hub for personal growth, social interaction, and community development.

A youth centre offers a wide range of programs and resources, including educational workshops, recreational activities, mentoring opportunities, and access to support services.
It fosters a sense of belonging and empowerment; it helps to prevent social isolation, and substance abuse among young individuals.

Moreover, a youth centre serves as a platform for talent development, leadership training, and civic participation, empowering young people to become active and responsible citizens who contribute to the city's progress and future. Overall, the presence of a youth centre in a city is vital for nurturing the potential of its young population and fostering a vibrant and inclusive community.

The project aims to create a centre for the youth of Pune, by creating a community space that will provide a common platform to gather, work and learn together.

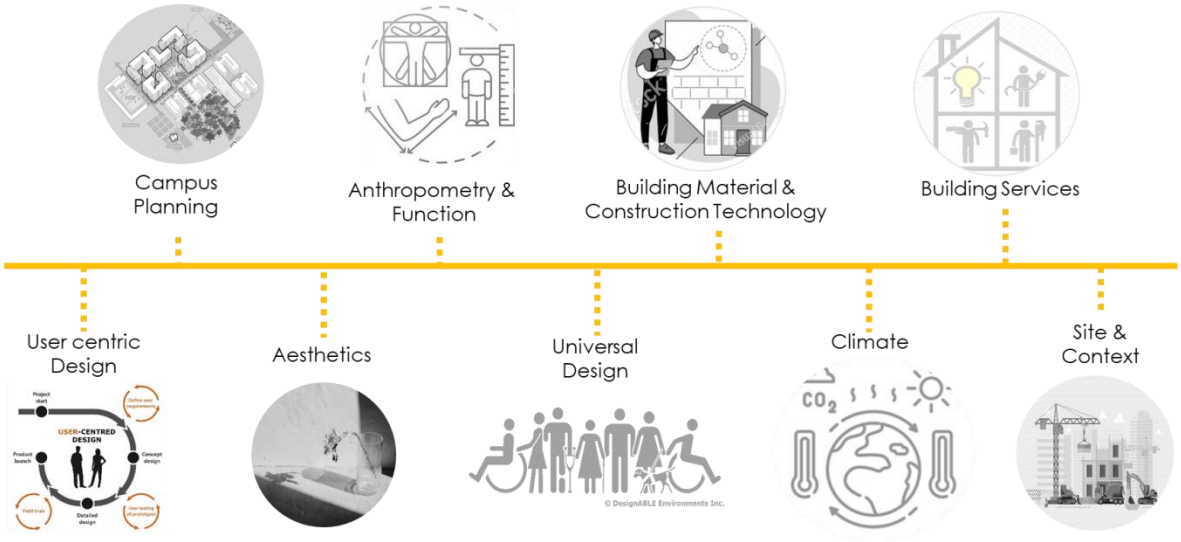
The objectives of the project are: **TO CREATE**

- a safe and welcoming environment for young people
- a space, promoting personal and social development
- a space for empowering youth
- a space, offering educational and vocational support
- a space, building community and social connections
- a space, preventing risky behaviours and promoting well-being
- a place that offers guidance and support for the youth of Pune city and visiting youth of the country to be decent adults and be future leaders for the community.
- facility that will be used by government and non-government groups to carry out their activities and programs for the development of the youth

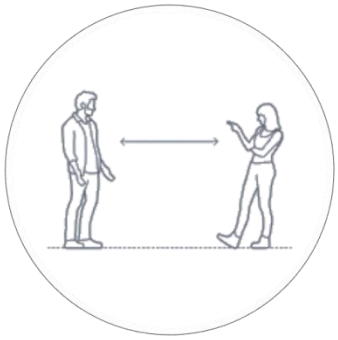
DESIGN CONSIDERATIONS:

Multi-functional: Design a centre that only teaches but also empowers in form of spaces and accessibility.
Climate:
Design approach focusing on the comfort of user and responding to climate for building efficiently
Collaborative:
Create fluid spaces that collaborate with learning and practical experiences.
Evolve and adapt: Spaces for future needs should be considered and the centre should evolve with time.

The youth centre consists of diverse facility space, mainly for out-of-classroom ones. The centre supports opportunities for youth to develop their physical, social, emotional, and cognitive abilities and to experience achievement, leadership, enjoyment, friendship, and recognition. The youth centre offers organized instructional programs for physical activities such as dance, yoga, and martial arts and for academic and arts programs such as science, crafts, and theatre. It also offers opportunities for unstructured activities such as game playing, socializing, club meetings, and outdoor play.



RESEARCH OBJECTIVE OF STUDIO:



Study of Design elements & Human Behaviours in Public spaces

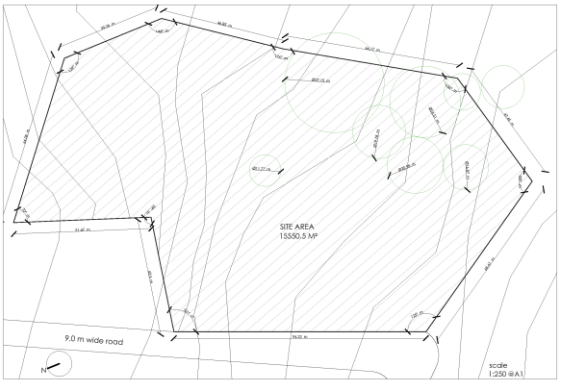
Architectural space and Human Psychology

User Centric Design Approach

PROJECT DETAILS:

Recreational zone Cultural zone Sports zone Co-working zone

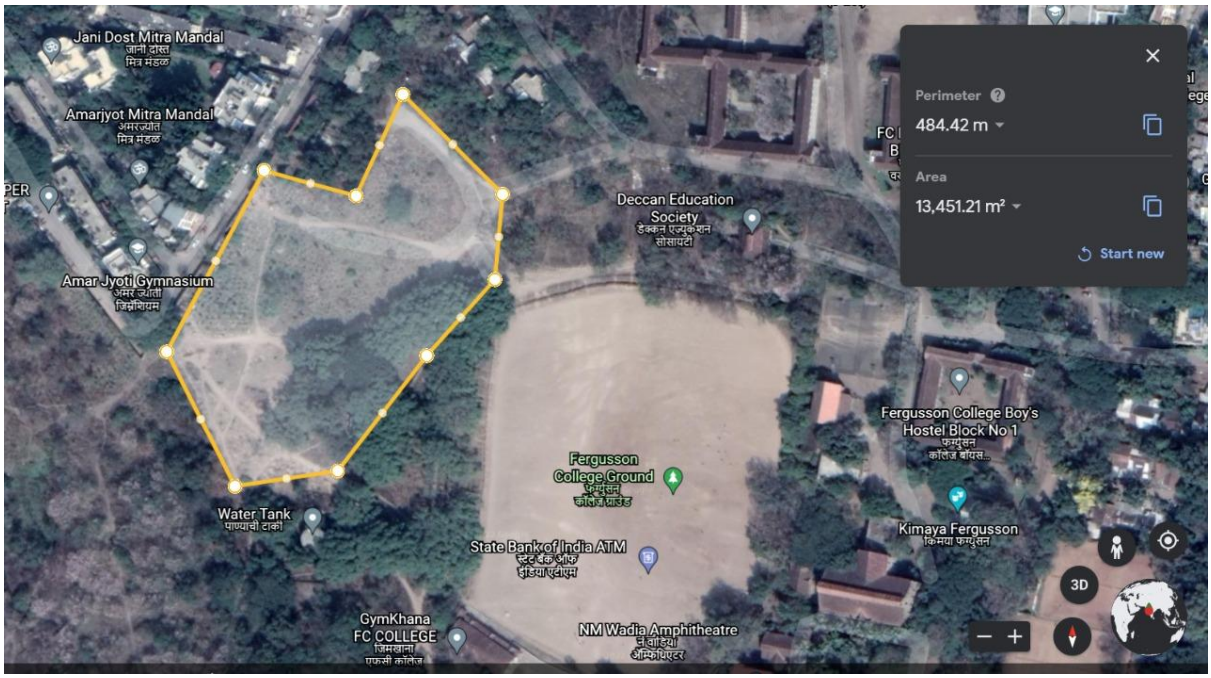
Learning zone Exhibition zone Administrative zone Residential zone



Sr no	Space Program	Area
A	**Admin**	**Total area- 220 sqm**
1	Reception	20 sqm
2	Waiting Area	80sqm
3	Admin	50sqm
4	Pantry	10sqm
5	Meeting room - 2	20 sqm each - 40 sqm
6	Locker room	20 sqm
B	**Working Spaces**	**Total area- 710 sqm**
1	Dance hall - 2	100sqm
2	Music	100 sqm
3	pottery + ceramics	80 sqm
4	art studio	80 sqm
5	Self development -5	100 sqm
6	Co working	150sqm
C	**Recreational Spaces**	**Total area 1380 sqm**
1	Auditorium	1000sqm
2	Library	200sqm
3	Cafeteria	150sqm
4	oat	
5	shop	30sqm
D	**Residential Zone**	**Total area - 445sqm**
1	Dorms	200sqm
2	store	10sqm
3	guest rooms- 3	25sqm
4	washrooms	75sqm
5	shower room	85sqm
E	**Sports, health, fitness zone**	
1	Basketball	500sqm
2	Turf	750sqm
	a. football	
	b. indoor hockey	
	c .volleyball	
	d.cricket practice net	
3	Wrestling mat	200sqm
4	Boxing	120 sqm
5	indoor sports	200sqm
6	gym	300sqm
7	yoga room	50sqm
8	locker rooms	50sqm
9	changing room	as required
	selection of sports subjective	
F	**Parking**	**No.**
1	Four wheeler	20
2	Two wheeler	30
3	Bus	2
4	Tempo	2
5	Bicycle	30
TOTAL PROJECT AREA		
built up area of site		**5125 sqm**
Add circulation area - 40%		**2050sqm**
Total area		**7175 sqm**

PROJECT SITE - TOTAL PLOT AREA – 15,550 sq. m.

The site selected for the project is behind the F.C. Campus, which has direct access and secondary access from FC Campus.



SUBMITTALS GUIDELINES

- All floor plans, sections and elevations shall be at 1:100 scale
- All site plans and site sections shall be to 1: 250 scale
- All design defining working details shall be drawn to appropriate scale.
- Computer generated graphics and drawings shall be printed to appropriate scales as mentioned above.
- Detail model of the proposal at 1: 200 scale
- Use of Thermocol / Styrofoam is prohibited for assessment submittals.

ASSESSMENT CRITERIA –

1	Pre-design studies & strategies adopted in generating appropriate Stimulant Ideas	20 percent
2	Compliance to Submittal Requirement and Quality of Submittals	10 percent
3	Functional, Services and Structural Integrity in the Development Proposed	20 percent
4	Innovative Design Concept Envisaged with respect to Development Proposed	50 percent

Slum Rehabilitation Project at Dandekar Bridge, Pune

Architectural Design Housing 2022-23 as per 2019 syllabus

Studio 4A Team : Dr. Shubhada Kamlapurkar | Prof. Sandhya Nivsarkar
Prof. Smita Ogale | Prof. Sunita Bapat | Prof. Haripriya Dalal

This particular studio team has been conducting housing studios from the last 6 years with a focus on a " defined" end user. The studio of 22-23 focuses on a defined client whose site we have considered for our design. There is a combination of slum rehabilitation dwellings as well as dwellings and commercial areas for sale, which is a vital component for the feasibility of the project. This means a defined end user in the form of the slum dweller and an undefined end users who would buy and occupy the sale residences.

Preamble

The aim of the project being "learning to do/design Housing", it follows that the objectives would be learning the process of generating a design brief, developing design iterations based on issues and taking design decisions based on Precedent Studies Socio-Cultural aspects, Economic aspects and the other contextual and analytical factors of site, house typology, traffic and vehicular movement, building material and construction technology and building services. All this to be achieved while balancing it with aesthetics and conforming to the Rules and Regulations.

In order to equip students with the necessary tools to design housing for people across varying social and economical levels, slum rehabilitation with the mandatory sale residences proves to be the most appropriate learning in terms of housing typologies, land pressure and feasibility of a project.

However, while doing this, the team thinks it is necessary to lend an interesting twist and edge to the project by encouraging the students to think " not at right angles" which would be open to interpretation of each student. This is also coupled with learning and using the EDGE Tool for designing for greater efficiency.

The Site

The chosen site is at the Dandekar bridge slums where already a rehabilitation project is underway. There are busy roads on 2 sides of the site and the other 2 site boundaries are formed by the Dandekar bridge nala. One occupied rehabilitation building and a mosque which has been sanctioned along with it are the given factors in terms of manmade structures. The students are expected to take cognizance of the natural features on the site and design the housing.

Plot area 17160 sq.m
Road Widening Area 610 sq.m
Net Plot Area 17000 sq.m
10% Open Space 1700 sq.m
Considering 3 FSI for the academic project
The net buildable area is 51000 sq.m
The existing structures have a built up area of 6000 sq.m with 192 tenements
The proposed Slum rehabilitation typologies in terms of area are 30 sq.m and 45 sq.m
Considering 100 temenents of each type, and additional 30% for circulation, the total built up for the proposed rehabilitation comes to 9750 sq.m
The sale component residences in terms of area are aveage 90 sq.m and 150 sq.m
Considering 100 temenents of each type and additional 30% for circulation the total built up for the proposed sale residences comes to 26700 sq.m.
The remaining area of 8550 sq.m is to be used for the commercial space, including certain SRA common areas of 600sq.m

The proposed residential requirement is as below

Sno	Type	Average Unit size in sq.m	Nos
1	Slum Rehab	30	100
2	Slum Rehab	45	100
3	Sale	90	100
4	Sale	150	100

A leeway of 10% in the no of units is permissible.
The broad parking requirement is given as 300 cars and 600 scooters.
The permissible height is 70m and students are expected to follow the byelaws for margins, space between building, mandatory open spaces, driveways for fire compliance, sizes and number of lifts and staircases, room sizes, duct sizes, various services and duct requirements for high rises.
Podiums and basements are permitted and lay of the land is considered as fairly flat, sloping very gently towards nala.

Services
Transformer area _15*2 nos or 20_30 sq.m - edge of site , easily accessible by road /close to internal road
Generator yard
Sewage treatment plant
Generator room -ground floor or first basement
Pump room aground floor or first basement
Ducts -wet, dry -may be close to lift and stair or common passage areas
Smoke shaft
Refuge area on 8th or 10th floor
Service floor /partial or service corridor after every 8th/10 floors
Garbage chutes
Underground tank anywhere on site preferably 2-3 of them close to each apartment
Oht with firefighting provision- on staircase rooftops
Rain water harvesting system a central or edge close to stream
Roof top photovoltaic panels -on top terrace
Electric room on each floor

Urban Hybrid Housing

MKSSS's Dr B.N College of Architecture for Women, Pune | Fourth Year Studio D | 2024-25

Mentors: Ar Anita Khandekar, Ar Rakshada Rode, Ar Rishikesh Adhikari, Ar Jinisha Lodaya, Ar Nilima Dhamal

Despite the diverse behaviors, needs, cultures, and lifestyles of modern society, people continue to share the same urban spaces, using them at different times and for various purposes. In today's highly interconnected world, mobile technology and digital networks enable communication with anyone, anywhere, at any moment. This constant technological progress has profoundly changed how we work, transforming our relationships with each other and the spaces we inhabit.
Our interactions have become more intricate, allowing us to seamlessly shift between physical and digital spaces. As lifestyles change, the concept of home is also evolving, moving from individual-focused to more communal living arrangements. Many contemporary apartment complexes now include smaller private units complemented by shared facilities like home offices, designed to meet both living and working needs. At the same time, the aging population is growing, creating an increasing demand for housing solutions tailored to the elderly. This highlights the urgent need for senior-friendly housing shortly. In India, many families still follow a joint family system, underscoring the need for larger housing units that can accommodate multiple generations. As social groups, digital technologies, and diverse living arrangements intersect, the housing landscape is becoming more hybrid in nature.
In light of these developments, the studio will focus on designing Urban Hybrid Housing—spaces that reflect this hybrid environment by promoting cohesion and inclusivity. The studio intends to explore the concept of hybridity in terms of housing unit planning, and design for internal as well as outdoor environments where the community will foster. The project will start with an exploration of hybridity through a socio-economic survey, aiming to understand the user needs and project goals to answer the question: Why Hybrid Housing? The site chosen for this project is Moshi, a developing area in Pimpri Chinchwad, Pune. After analysing the site context, students will develop their own proposals for Urban Hybrid Housing.

Studio Aim:

To design urban hybrid housing through understanding the concepts of multigenerational living, changing lifestyle and current market trends.

Studio Objective:

- To explores the potentials of design to address multigenerational living through various typologies
- Evolving new housing typologies for specific user group.
- Achieving accessibility at different levels of planning
- Exploring clustering of units to achieve private as well as inclusivity for community

Design Challenge:

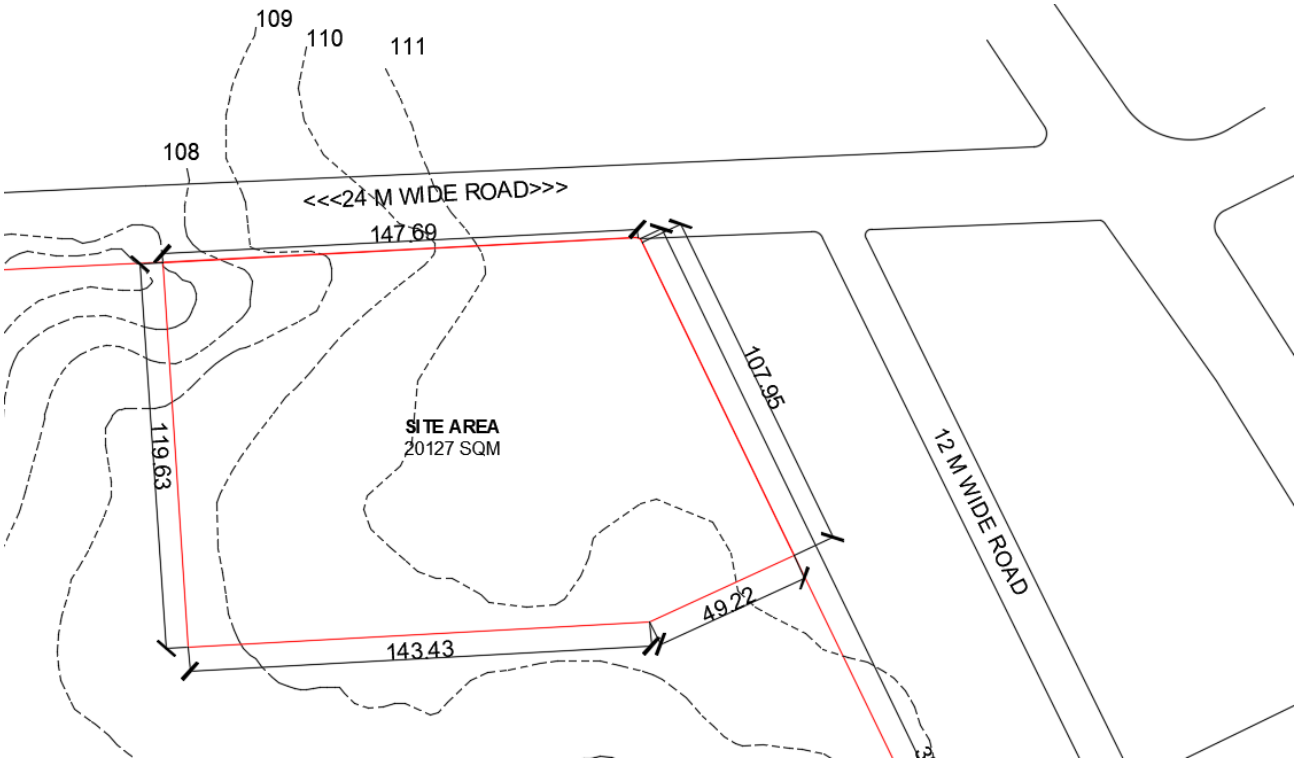
- The challenge here is to design a hybrid structure of a house and a workspace integration
- Re-defining units' typologies in terms of space planning and their unique characteristics
- Providing design solutions for different physical and physiological needs
- Designing a community with social inclusion with protected privacy in hybrid environment

Housing Typologies to be explored:

Housing Typology	Unit Configuration	Area of Unit
SOHO- Small Office Home Office	1bhk or 2bhk with office attached with dedicated office space or flexible or convertible office space	50 to 90 sq.m
Senior Citizen Housing Unit	1 or 2bhk considering scenarios such as senior citizens living with a caretaker or without a caretaker in the smaller unit but with the provision of Universally Accessible toilet.	50 to 90 sq.m
Multifamily Unit	3 & 4 Bhk with office or without office	90 to 150 sq.m

Site Details :

Moshi, PCMC



The site is situated in Moshi, Pimpri Chinchwad, adjacent to a 24-meter-wide road. The area is undergoing rapid development, driven primarily by industrial growth, and there is a rising demand for housing, particularly for retired elderly residents, IT employees and In
To understand the site context, students must analyze the factors influencing its current conditions. According to the development plan, the site is designated for residential use and falls within Sector 07. It benefits from close proximity to key amenities such as the Pune Convention Center, public hospitals, schools, and colleges. The site is also well connected to surrounding areas through established road infrastructure, with the Spine Road, which links Pune to Nashik, forming part of the immediate vicinity.

Area Statement:

Sr no	Gross Plot Area	Area in Sq m	Remark
1.	As per site demarcation survey	20,127	
2.	Amenities = 15%	3019	
3.	Open Space = 10%	2012	
4.	Net plot Area	15096	
5.	Basic FSI 1.1 + 0.5(Premium FSI)	1.6	
6.	Built Up	24153	
7.	Ancillary FSI 60% of 6	14491	
8.	Total (6+7)	38645	
Area Utilisation			
9.	Allowing 40% ground coverage ofNet plot area (15096 X 0.4)	6038	
Unit Typology		Area	Total no of Units
1.	SOHO	2 BHK	120
2.	Senior Citizen	1 BHK & 2 BHK	75
3.	Multifamily Units	3 BHK & 4 BHK	55
		Total no of units	250s
Configuration			
1.	1BHK	50-65 sq.m	
2.	2BHK	60-90 sq.m	
3.	3BHK	90-120 sq.m	
4.	4 BHK	120 -150 sq.m	

Course Outcome Program Outcome Mapping Details:

CO No	Associated Course Outcome
CO 01	To develop a narrative for the urban hybrid project exploring urbanisation trends & post covid shift in housing typology across globe
CO 02	To understand concept of multigenerational living in order to understand user needs
CO 03	To understand the project brief addressing the shift in housing typology
CO 04	To conduct case studies and analyse their context/s and various approaches, strategies of contextual resposes and present it in group
CO 05	To analyse the site and its context
CO 06	To understand the list of byelaws relevant to housing - in relation to FSI consumption, provision services and design of service core, building height, distance between two building, sizes of ducts etc.
CO 07	To calculate FSI, total allowable built up area and prepare a space brief specifying sizes and no of units, housing density, amenities, parking area and open spcaes etc.
CO 08	To apply bye laws and demonstrate its' understanding in master plan,unit plan, building plan
CO 09	To create a zoning plan indicating basic internal road network within the site and connecting to sourrounding with proposed land use pattern
CO 10	To create Open space configuration plan wrt size, building orientation, access to building.
CO 11	To create amenity distribution and building grouping plan.
CO 12	To create a rendered master plan indicating amalgamation of road network, open space distribution, amenity allocation, access points to site, service entry, services distribution across site, vegetation cover, pedestrian network
CO 13	To design various options of the units wrt case study inferences related to unit design & site inferences
CO 14	To create unit plans of various sizes with proximities as per the functions of the spaces with optimal circulation areas
CO 15	To evaluate unit designs considering adequate natural light and ventilation, exterior view and interior layouts of rooms
	To evaluate effective design grid and service grid (Seggregate analysing, evaluation and design part)

CO 16	To develop, analyse and evaluate various options of clustering of the units around the circulation core considering optimal service area and easy access to all units
	To indicate the vertical core required as per the byelaws, showing basic spatial provisions for overhead water tank, lift machine room and indicate the same in plan, elevation, sections wherever relevant
CO 17	To indicate provisions of refuse areas, fire fighting duct, electric duct, duct for refuse chute, fire fighting staircase, fight fighting water tank in floor plans in case of HRBs To provide and indicate service floors, refuge areas in sections
	To indicate site level services like UGWT, STP (if applicable), transformer etc in site plan
CO 18	To design the wet core and indicate the same in plan and in sections showing provision of sunk to accommodate drainage
	To design and indicate toilet layout and kitchen layout segregating wet and dry areas and considering appropriate drainage and plumbing services
CO 19	To use structural grid considering parking layout and design grid of units and denote it clearly in floor plans and sections/ framing, min no of column. Typical structral considerations
CO 20	To create façade design options based on locally available materials.
CO 21	To calculate the parking requirements as per bye-laws To develop a circulation layout in terms of segregation of pedestrian-vehicular circulation and indicate it in site plan To design parking layout with parking bays, driveway, applicable turning radius and provision of ramps etc. and to denote these in the site plan, basement/floor plans, and sections as applicable

MAHARSHI KARVE STREE SHIKSHAN SAMSTHA
Affiliated to Savitribai Phule Pune University.(SPPU)
University Affiliation No.: PU/PN/ARCH/109/1994.
Approved by:
*Council of Architecture.(COA),New Delhi
*All India Council for Technical Education (AICTE)
*National Assessment & Accreditation Council(NAAC)

BNCA
DR.BHANUBEN NANAVATI
COLLEGE OF ARCHITECTURE
FOR WOMEN
Gate No:04, BNCA Campus,
Cummins College Road,
Karve Nagar, Pune 411 052.
Ph: +91 20 25474062 / 25476966
E-mail:mail@bnca.ac.in, www.bnca.ac.in

Criterion 1.3- Curriculum Enrichment

1.3.1

CROSS CUTTUNG ISSUE: ENVIRONMENT & SUSTAINABILITY

Architectural Design briefs

DESIGN BRIEF FOR SEMESTER-III

Architectural Design IV | Third Year B.Arch | Studio 3C

Western Ghats Interpretation Center & Adventure Hub at Jog Falls

Project Overview

Older than the Himalaya mountains, the Western Ghats are internationally recognized as a region of immense global importance for the conservation of biological diversity, besides containing areas of high geological, cultural and aesthetic values. A chain of mountains running parallel to India's western coast, the Ghats traverse the States of Kerala, Tamil Nadu, Karnataka, Goa, Maharashtra and Gujarat. These high mountain forest ecosystems influence the Indian monsoon weather pattern.

The Western Ghats **Interpretation Centre** aims to be a centre of education and biodiversity preservation for hikers,trekkers, rafters, visiting enthusiasts and scientists. By offering comprehensive resources and engaging exhibits, the centre will enhance visitors' understanding of the Western ghats region. It will provide resources for researchers, educators, climbers, and tourists, promoting a deeper understanding of the Western ghats ecosystem.

The Centre aims to create a state-of-the-art facility dedicated to the study, interpretation, and preservation of the unique biodiversity hotspots and will serve as a **hub for scientific research**, environmental education, sustainable tourism and conservation efforts.

The Endurance and Fitness Certification Center will provide medical, educational, and logistical resources to ensure climbers' safety and preparedness while promoting sustainable and responsible climbing practices.

Focus of the studio : Form Oriented Design

This form based studio intends to advance students' knowledge and skills towards the following goals:

- To link an Idea, Form and Material for design and development of a built environment
- To introduce the architectural design tools offered by the computational environment.
- To understand the design process that these tools have enabled in the architectural design
- To explore the generation of varied formal expressions through exploration of metaphors
- To understand the necessary material and structural representation needed to build non-standard form

This studio uses Digital Tools and Operations (DTO) for exploration of forms, and applies them in broader contexts

Tools used are

- Rhinoceros 7/ 8
- Grasshopper (Optional)

Studio Objectives

Design to blend with the natural landscape and minimize visual impact
Ensure minimal disruption to local wildlife and vegetation
Provide clear way finding and accessible pathways
Create comfortable, inspiring spaces that enhance the visitor experience
Ensure safety and accessibility for all users

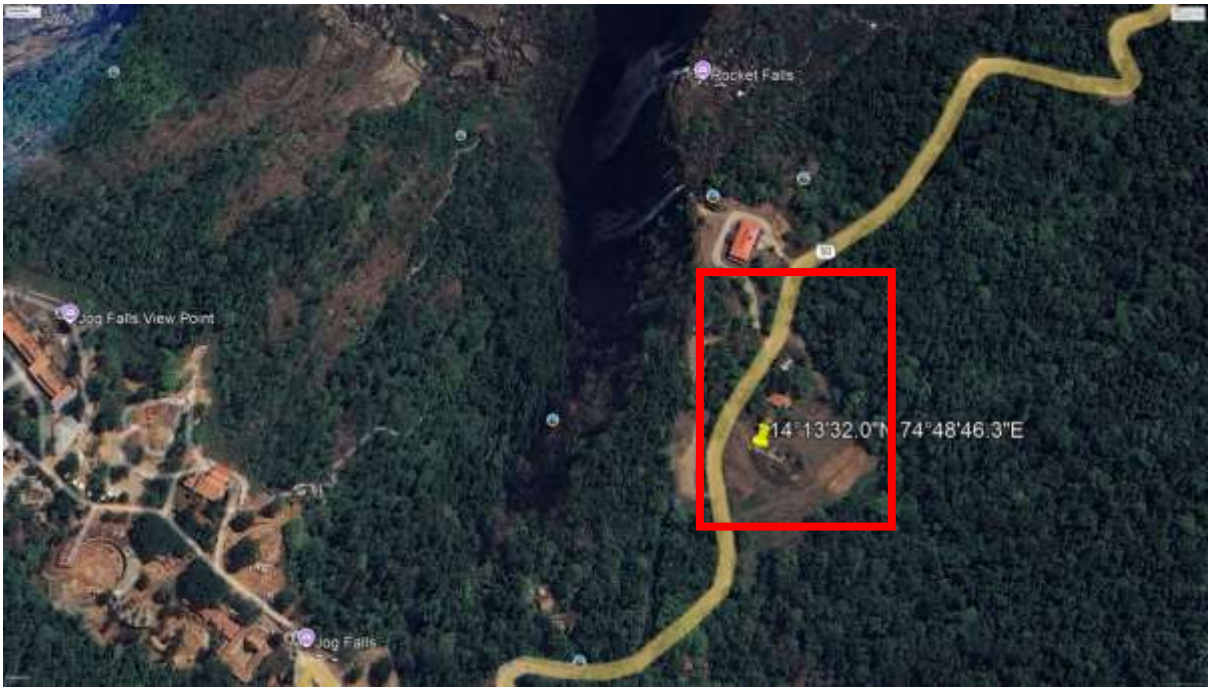
Expected Outcomes of the Studio

- Learning to evaluate a studio brief to formulate, consolidate, and synthesise an individual project brief
- Understanding design precedents as selective presentation of a case that has a unique lesson to teach
- Using various design precedent as case based reasoning that represents relations between the design problem, a solution concept and its manifested form.
- Demonstrate an ability to translate a design ambition through metaphors into a design idea, recognize and manipulate the interplay between form, function, structure and materiality in 3D spaces
- Conceive original design solutions that endow spaces with utilitarian, aesthetic, and affective value
- Show developed critical understanding of aesthetics, visual and contextual qualities relevant to the design response
- Communicate the design using a set of graphic techniques and verbal presentation skills appropriate to the level of study

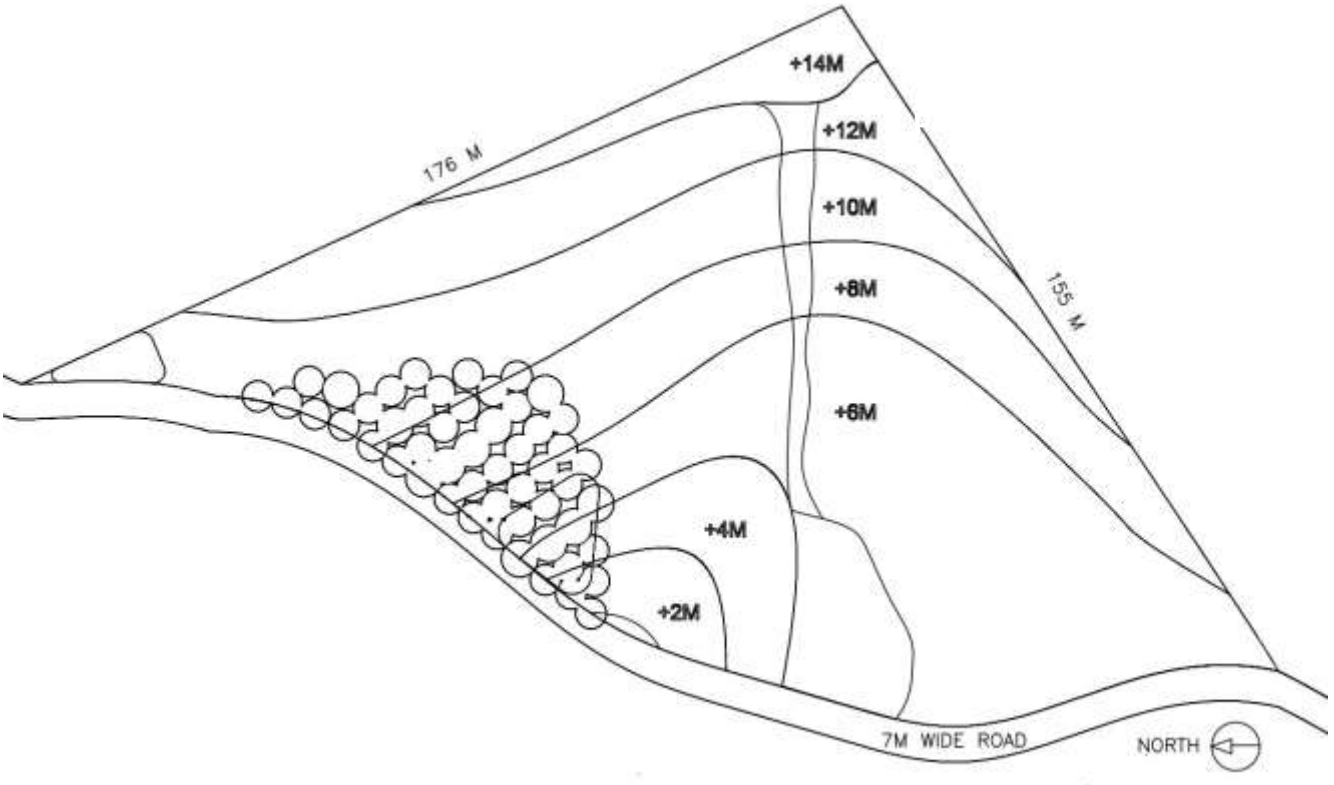
Site Selection

Location: Situated at Jog Falls, Karnataka
Accessibility: Easy access for researchers and tourists and adventure enthusiasts

Site Google Earth image



Site map



Short Site Visits to experience Non-Standard structures

- Exposure to the craft of building Non-linear spaces
- Lecture on use of ferrocrete for construction of shell structures by experts
- Case study visits as one day excursions around Pune
- Visit to Maya Somaya Library, Kopargaon
- Visit to Jetavan Kopargaon

Program Components

A. **Interpretation Center for tourists, trekkers and scientists**
B. **Endurance and Fitness certification Center:**
C. **Biodiversity Research Center of Botanical Survey of India**
D. **A public facility of 500sqm built up area relevant to the Western Ghats** (proposed by individual student)
E. **Services**

Area Program

Site Area 15000sq.m
Permissible Built up area 5000 sq.m
Permissible coverage 30%
Following are the Space requirements for the development envisaged

Sno	Space	Area in Sqm
1	**Interpretation Center**	
	Lobby area- ticket counter+info desk+guide+ admin	500
	Exhibition Halls	
	• Geology	100
	• History	100
	• Flora and Fauna	150
	Amphitheater	100
	Classroom	70
	Library	150
	Souvenirs area	40
	Resting Lounges	120
	Dining Area Including Kitchen+Utility+store/pantry	370
	Rest rooms	60
	Total	**1760**
2	**Fitness and Endurance Centre**	
	Reception and lobby area	150

	Adventure Hub /Fitness centre	150
	Doctor cabin	10
	Clinic	25
	Medical store	10
	Locker and changing room	150
	Total	**500**
3	**Biodiversity Research Center of Botanical Survey of India**	
	Air Conditioned Lab	100
	Cabin for 5 scientists+ Toilet	80
	Conference Hall	130
	Cold storage	30
	Storage	30
	Printing and Stationery	20
	Server Room	80
	Power Room	20
	Archive	45
	Nursery	100
	Seed Bank	50
	Total	**685**
	Arboretum (open space)	2000
4	**Public facility of 500sqm built up area relevant to the Western Ghats**	**500**
	Grand Total Area	**3450**
	Add 30% for toilets and Circulation	1035
	Total B/up area of the Center	**4500**
5	**Services**	
	Electrical Room	15
	Maintenance & Repairs room	40
	Pump Room	6
	Security Cabin at entry and exit (2 nos)	8
	Transformer yard	
	Generators	
	Overhead water tanks & Underground Tank	
	Sewage Treatment Plant	
6	**Parking**	
	Bus	2 nos
	4 wheelers -	30
	2 wheelers	20

URBAN HOUSING – TOWARDS A GREENER NEIGHBOURHOOD

STUDIO B – SEM VII – 2024-25

Faculty: Aarti Verma, Kavita Gathani, Sheetal Nandode, Mandar Athavale, Amruta Garud

Preamble

India has committed to achieve net-zero emissions by 2070. To achieve this goal, it is important to look at the densification of cities and assert the need for sustainable development in urban areas. Housing, being a major component of our cities, housing designs have an immense potential to provide a green and healthy environment. Green housing addresses urgent environmental challenges while offering economic savings, health benefits, and enhanced durability. It represents a proactive approach to building and living that aligns with contemporary needs and future sustainability goals Various regulatory bodies like IGBC, LEED and such others have developed strategies to help designers achieve green environments.

Studio Intent

This design program intends to integrate the green design principles through housing design in the city of Pune. The proposed site is at Viman Nagar location near Pune Airport. The design studio focusses on developing a housing project with a focus on green design parameters.

The objective of the studio is to propose a design based on Green Design principles which would help towards a greener neighbourhood. Considering the scope of the Green building principles, the studio limits itself to create awareness and induce thought process towards designing green housing. The larger focus of the studio being developing an architectural design, the studio limits itself to identify and modify design parameters that would create green housing.

Methodology

Studio methodology focusses on understanding and analysing the existing housing. The pre-design methodology involves in-depth analysis of live case studies and book case studies. Case studies are expected to be analysed on the green design parameters. A comprehensive green design strategy is formulated based on all these studies.

Design process involves developing designs based on green design strategies that students formulate for themselves. Students are expected to prepare a master plan for the green design housing scheme on a plot area of around 4 ha with total around 270-280 apartments and 20 row houses. This design will follow the UDCPR norms, NBC norms, and other relevant norms after careful study and research.

The capacity building towards understanding green parameters would be done through certain discourses focussing on IGBC and ECBC guidelines. A framework of certain parameters to enable students with design is done at four major paradigms: Sustainable site measures, Unit designs, Cluster or building level approaches, and Health and well-being related parameters. Such parameters are identified by faculty and students could prioritize them based on their design concepts.

Deliverables expected

- Live Case Study analysis
- Book Case study analysis
- Study of Bye-Laws
- Identification of green design parameters
- Derivation of Design Strategies for individual designs
- Site Development with detailed site plan

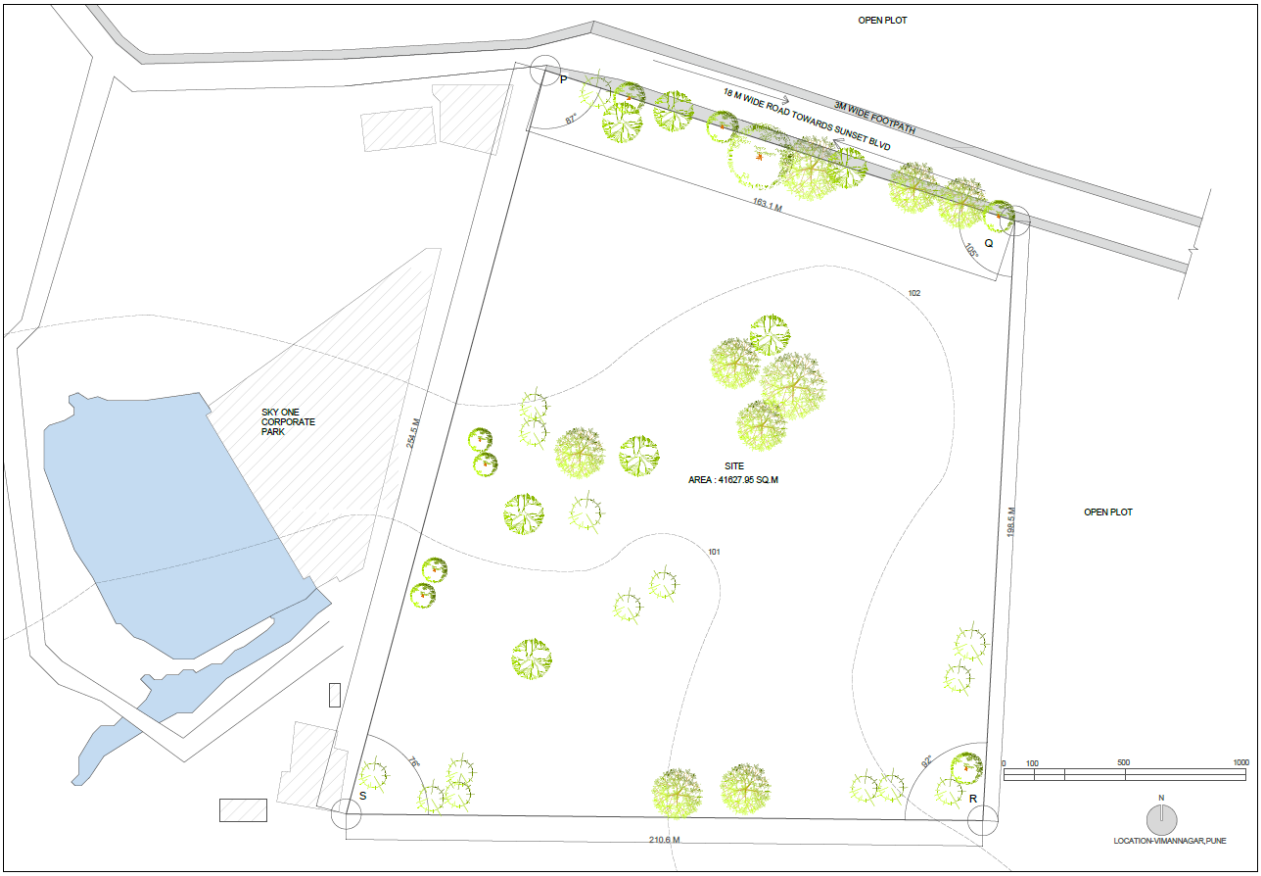
- Zoning of housing units based on design strategies
- Architectural design for Units and row houses
- Green design parameters explained through drawings

Design Program

Sr. No.	**Site Specifications**			Areas in sq.m
1.	Gross Plot Area			**41,628.00**
2.	Amenity plot *(15% of Gross plot area)*			6,244.00
3.	Plot Area remaining			35,384.00
4.	Open Space *(10% of remaining plot area)*			3,538.00
5.	**Net Plot Area after deductions**			**31,845.00**
6.	FSI (1)			31,845.00
7.	60% Ancillary FSI			19,107
8.	**Total Built Up Area**			**50,593**
9.	**Housing Typology**	**Area in sq.m**	**Numbers**	**B.up in sq.m**
10.	Row Houses	200	20	4000.00
11.	3 BHK	150	150	22,500.00
12.	4 BHK	200	100	20,000.00
13.	**Total**		**270**	**46,500.00**
An allowance of 10 to 15 units is accepted. Anything beyond the proposed numbers and areas needs to be justified.				

Amenities that could be provided are to be decided by students. Based on the design concept, students are free to choose basic and supporting amenities that could be planned in the amenity plot. A nursery school, a health clinic, convenience shopping, community centre, library or any other supportive activities could be included for the same. The areas need to be decided by students with relevant justification.

The Site



Expected Course Outcomes

Sr. No.	Mandatory Attainments	Competency framework aspect	Level of competency	Co Number	Course Outcomes
1.	Project argument based on key theme of the studio	Project argument	Competency	CO1	To understand and document the **physical**, **geographical**, historical, larger city/regional level context applicable to the project along with analysing the site
2.				CO2	To develop a narrative for the project covering various aspects like the need, and theme of the project and to argue its relevance based on socio-cultural, socio-economic, **urban/architectural aspects**
3.	Response to the context in terms of physical parameters of the site and socio-cultural profile of users	Contextual response	Competency	CO3	To conduct case studies and analyse their context/s and various approaches, strategies of contextual responses and discuss in groups

4.				CO4	To identify and discuss green design parameters from the case studies
5.				CO5	To develop strategies of contextual responses through sketches and models, scale of the project, site planning, form and architectural character.
6.				CO 6	To develop building facades correpsonding to orientation as per green design principles
7.	Open space design, heirarchy, configuration and structure of the open space. building edge and open space edges	Open space design	Proficiency	CO 7	To analyse case studies for the open space design in terms of size, scale, heirarchy of open spaces, structure of open spaces and their relationship with the building edg, their uses, identify the patterns of built and un-built spaces, and discuss in groups
8.				CO 8	To create segregation and integration of pedestrian and vehicular movement in a residential layout after analysing the configuration of open spaces formed as a result of spatial arrangement of buildings blocks through site planning
9.				CO9	To formulate open space design strategies considering function of open space; preparing Landscape Plan
10.	Unit design of varied sizes and typologies, Clustering and stacking of units	Function, circulation, adjacencies	Proficiency	CO 10	To understand and document various typologies of housing units in multifamily housing along with the spatial relationship among the activities within a housing unit, to understand and discuss the strategies of clustering and stacking of unit through case studies
11.				CO 11	To design and evaluate various options of the units of various sizes with proximities as per the functions of the spaces with optimal circulation areas considering adequate natural light and ventilation, view and interior layouts of rooms and effective design grid and service grid
12.				CO 12	To design building features supporting passive architectural design strategies

13.	Resolution of parking layout, pedestrian and vehicular movement			CO 13	To design parking layout with parking bays, driveway, applicable turning radius and provision of ramps etc. and to denote these in site plan, basement/floor plans and sections as applicable
14.	Service core design in terms of wet core and vertical core	Services	Adequacy	CO 14	To indicate the vertical core required as per the byelaws, showing basic spatial provisions for overhead water tank, lift machine room and indicate the same in plan, elevation, sections wherever relevant To indicate site level services like UGWT, STP (if applicable), transformer etc in site plan
15.		Structure		CO 15	To design structural grid considering parking layout and design grid of units and denote it clearly in floor plans and sections
16.	8. Study of bye-laws and application with respect to building and site	Project argument	Adequacy	CO 16	To apply bye laws and demonstrate it's understanding in design
17.	Climate response			CO17	To identify design parameters corresponding to climatic zone
18.	Project argument based on key theme of the studio	Project argument	Competency	CO18	To design and demonstrate green design principles through design drawings

STUDIO B: SEM VII: GREEN PRINCIPLES FOR GREEN HOUSING

Minimum Parameters that could be documented through design:

MODULE 1: Sustainable Site Considerations

1. Provision of contemplative landscaping and tree plantation to maintain biodiversity
2. Existing trees to be retained
3. Unrestricted accessibility for physically challenged /universal accessibility.
4. Segregation in vehicular and pedestrian circulation
5. Maximum soft soil area provision for water percolation – to increase ground water table.
6. Provide site service locations for Rain water harvesting and Waste Water Treatment
7. Design as per local building bye –laws / norms.

MODULE 2: Cluster/Stacking/Grouping

1. Building Orientation
2. Building Massing with shadow calculations
3. Daylight- Light pipes/ Laser cut panels/ optical fiber, LED lighting.
4. Sun shading & Thermal protection of walls & windows.
5. Sufficiently ventilated lobby spaces
6. Maximum use of local / locally manufactured products / green products
7. Appropriate lifts & staircases
8. Appropriate Parking provision

MODULE 3: Unit Design

1. Natural day lighting in all habitable areas – for power saving and well being.
2. Ventilation- Cross – Ventilation- providing adequate doors, windows, ventilators in dwelling units for a Healthy environment.
3. Envelope design – wall assembly / roof assembly / wall – window ratio / skylight / shading elements / glazing.
4. Maintaining Window-Wall Ratio; Window-Floor Ratio
5. Sun shading & Thermal protection of walls & windows.
6. Daylight- Light pipes/ Laser cut panels/ optical fiber, LED lighting.
7. Ventilation- Cross – Ventilation- providing adequate doors, windows, ventilators in dwelling units for a Healthy environment.

MODULE 4: Well Being & Health of Residents

1. Landscaping for peace, tranquility, relaxation & comfort.
2. Design Features for comfort & welfare – shelters, seating, water bodies
3. Community gathering spaces / Social spaces within site
4. Universal accessibility – provide handrails, antiskid flooring, soft corners, pathways,
5. Connectivity to Exteriors for Physical well being, amenities & facilities.
6. Access to Amenities

BNCA
MAHARSHI KARVE STREE SHIKSHAN SAMSTHA'S
(Institution for women Education)
AN ISO 9001-2008 CERTIFIED INSTITUTE
DR. BHANUBEN NANAVATI
COLLEGE OF ARCHITECTURE
FOR WOMEN
KARVE NAGAR, PUNE 411 052, INDIA

UNITED NATIONS academic impact MEMBER Sharing a Culture of Intellectual Social Responsibility

Design V STUDIO - D

JAN 10, **2023**

Long Assignment for Semester 6,

Design Exercise 1

CONTEXUALISM

HOTEL - Designing with response to context

PREAMBLE :

Architecture is a curious craft!
"One structure may follow all the laws of design, yet be worth less,
While still another may beak all the principles and be profound!"
"A building may be bad without doing anything wrong, yet another work may have to sin against architecture to reach perfection." - *Christopher Charles Benninger*
What is a Contextual Response?
Designing of a structure in response to the literal and abstract characteristics of the environment in which it is built.
Role of Context' in Architecture
Interpretation of Local/Regional Values.
By definition context refers to the setting of an idea, text, statement or form, in terms of which it can be understood clearly. For an urban architecture, the context is the surrounding environment and its various constructions – physical, social, economic, ecological, cultural and so on. Within the context the (re-) new work of architecture is supposed to be weaved in an integrated way.
By definition context refers to the setting of an idea, text, statement or form, in terms of which it can be understood clearly. For an urban architecture, the context is the surrounding environment and its various constructions – physical, social, economic, ecological, cultural and so on. Within the context the (re-) new work of architecture is supposed to be weaved in an integrated way.

Heritage is one of the most preferred tourism resources in the world. Many destinations use their unique heritage and cultural resources to increase their place-based competitive advantage , many tourist destinations claimed that tourists' experience with heritage is an important medium for enhancing a national image, which enables people to conceive, imagine and confirm their belonging to the nation. To understand the uniqueness sought in heritage encounters, it is essential to understand what types of heritage attractions and experiences can satisfy the needs of contemporary cultural consumption (Apostolakis, 2003; Jolliffe & Smith, 2001). One heritage resource that can be studied through this project of heritage Hotel Design, to understand historic designs and other such tourist accommodations. This project design proposal can give unique learning experience because it will provide heritage experiences and accommodations simultaneously.

Objective of study

Contextual design response
Learning edge tool for designing climate responsive high-rise structure
Learning complexity of Service oriented building with multiple activities
Making informed decisions in choosing appropriate services

DESIGN PROGRAM - STUDIO - D 2023				
THREE STAR HOTEL				7793 SQ.M.
A	Reception and Front Administration			300
B	Back Office Administration			165
C	Concessions and Guest Facilities			1,725
D	Spa Reflexology Area			210
D	Outdoor Facilities			
E	Housekeeping Facilities			365
F	Lodging			2,400
G	Support Facilities			400
	Total			5,565
Add 40 percent towards Circulation, Lobby, Public spaces, Service areas, wall area				2,226
Total Space Program - Built-up Area				*7,763*
H	Engineering Support Services			440
I	Parking Facilities			
Project Level Information				
1	Plot Area		Sq. M.	
2	Permissible Built Up		Sq. M.	
3	Permissible Ground Coverage	50	%	
Description of Activity or Function		No.	Unit Area	Total Area
A	Reception and Front Administration			300
1	Entrance Foyer, Reception, Display and Waiting Lounge	1	100	100
2	Information and Tourist Facility Centre			
a	Travel Desks	1	10	10
b	Forex Desk	1	10	10
c	Tourist Desk	1	10	10
d	Information Desk	1	10	10
e	Travel Manager	1	15	15
f	Waiting	1	20	20
3	Administrative Front Office			
a	Front Office	1	20	20
b	Front Office Manager	1	20	20
c	Bell Captain	1	10	10
d	Clock Room	1	15	15
4	Estate Manager's Office	1	30	30
5	Hi-Tech Site Security and Surveillance Office	1	30	30
6	Toilets for Ladies and Gents and Drinking Water Facility	Adequate		
B	Back Office Administration			165
1	General Office	1	15	15
2	Accounts and Billing	1	15	15
3	Systems Manager	1	15	15

4	General Manager	1	15	15
5	HR Manager	1	15	15
6	Chairman and Managing Director	1	30	30
7	Stores and Records	1	30	30
8	Meeting or Training Room for 16 person	1	30	30
9	Toilets for Ladies and Gents and Drinking Water Facility	Adequate		
C	**Guest Facilities**			**1,725**
1	24 hour Coffee Shop with Buffet Service - 80 Covers	1	100	100
2	Shops for Boutique, Florist, Pastry, Bakery, ATM and Internet	6	25	150
3	Unisex Saloon with Toilets	2	50	100
4	Specialist or Theme Restaurant- 60 Cover	2	150	300
5	Bar with Excise Stores	1	25	25
6	Seminar Hall with Audiovisual Facility - Capacity 80	2	200	400
7	Banquette Hall which can be divided into two facility, pantry, service rooms, and multipurpose rooms and spill over semi covered area, etc.	1	400	400
8	Business Lounge	1	100	100
9	Meeting Rooms	2	25	50
10	Conference Rooms for 30 - 40 persons of Various Seating	2	50	100
11	Boutique Shopping Areas	1	100	100
D	**Spa Reflexology Area**			**210**
1	Reception & Waiting	1	50	50
2	Massage Room	5	12	60
3	Changing Rooms & Toilets	2	25	50
4	Rest Rooms	1	25	25
5	Steam Room	1	25	25
E	**Outdoor Facilities**			
1	Terrace Garden with Sit out and Out Door Party Provision	Adequate		
2	Open Air Amphitheatre	Adequate		
3	Swimming Pool with Changing Rooms and Toilets may be clubbed with health facilities	Adequate		
4	Performance Courts, Outdoor Relaxation spaces, View appreciation frames and spill over areas to be integrated into design at appropriate locations.	Adequate		
5	Various landscape elements could be added to make the space active and lively.	Adequate		
F	**Housekeeping Facilities**			**365**
1	General Stores	1	50	50

2	Linen Stores	1	50	50
3	Housekeeping Manager	1	25	25
4	Floor Service Pantry on Each Floor on Each Floor with area 15 -20 Sq M.		Adequate	
5	Floor Housekeeping Room on Each Floor with area 15-20		Adequate	
6	Staff Changing with Lockers	2	20	40
7	Staff Dining for 50 covers with Kitchen	1	100	100
8	Laundry	1	50	50
9	Staff Rest Room	1	50	50
G	**Lodging**			**2400**
1	Double Bedded Guest Rooms	40	30	1200
2	Special Suits	20	60	1200
H	**Support Facilities**			**400**
1	Central Kitchen with Pantry, Washing, Drying, Store			
a	Main Kitchen	1	120	120
b	Washing	1	20	20
c	Dry Stores	1	20	20
d	Cold Stores	1	20	20
e	FAB Manager	1	15	15
f	Chef	1	15	15
g	Bakery	1	20	20
h	Specialist Kitchen with Stores	1	60	60
i	Chef	1	10	10
3	Maintenance Room	1	50	50
4	Store Room	1	50	50
5	Loading and Unloading Docks		Adequate	
6	Service Core may includes all necessary support,space for service trolley, etc.		Adequate	
7	Toilets for Ladies and Gents and Drinking Water Facility		Adequate	
	Total			***5,565***
	Add 40 percent towards Circulation, Lobby, Public Toilets, Public Waiting spaces, Service areas, wall area etc.			***2,226***
	Total Space Program – Built-up Area			***7,791***
I	**Engineering Support Services**			**440**
1	Electrical and Telecommunication	1	80	80
2	Mechanical and Air -conditioning	1	120	120
3	Public Health Engineering	1	80	80
4	Building Automation and Management Services	1	40	40
5	Safety and Security Services	1	40	40
6	Building and Furniture Maintenance	1	80	80

7	Floor MEP on Each Floor with area 20 - 25 Sq M.		Adequate	
J	**Parking Facilities**			
1	Covered Cars	30		
2	Covered Scooters	30		
3	Visitors - Cars	30		
4	Visitors - Scooters	20		
	Parking facility requirement is ad -hoc for the purposes of design assignment only. It is assumed balance parking facility shall be catered to through alternative adjoining locations and shall be independent of this design brief.			
I	**Parking Facilities**			
1	Covered Cars	30		
2	Covered Scooters	30		
3	Visitors - Cars	30		
4	Visitors - Scooters	20		
	Parking facility requirement is ad -hoc for the purposes of design assignment only. It is assumed			
J	**Codes to Be Followed**			
1	Maximum height of building shall be 40.00 M.			
2	Minimum setbacks shall be 12.00 M from road side; 9.00 M from the rear sides. Please refer project			
3	Minimum width of recreational open space shall be 21.00 M.			
4	Maximum floor to floor height shall be 4.20 M for non -assembly areas.			
5	Support facilities and Double height spaces are free of FSI.			
6	No exemptions to computation of Built up Area.			
7	Universal design co des and fire safety codes shall be applicable.			
8	Two level basements shall be permissible to house engineering services, parking only.			
9	Balcony projections as open outdoor spaces are permissible within setback. Maximum width of			
K	**OBJECTIVES**			
1	To understand and resolve complexities involved in multi -function, multi-storied and multiple services dependent design program.			
2	To enable the students to comprehend design program with respect to Activity Organization, Site Planning, Movement Pattern - Vehicular as well as Pedestrian in all three dimensions, Scale and volume of development envisaged.			
3	To enable the students to comprehend Promoters' specific requirements vis -à-vis Design Alternatives available interpolating with Local Development Bye -Laws.			
4	To enable the students to comprehend non -specified essential requirement generated by the Development envisaged.			
5	To enable the students to make observations on the functioning of similar development after making field study and relate the various findings in the Project.			
6	To enable the students to understand Architectural response in order to achieve energy efficiency while integrating multiple services within a development.			

7	To integrate function, structure and services in a building, choice of structural system and resultant effect on visual form or aesthetics of building.		
8	To understand the intangible associations with the Business Incubation environment as a designer and to understand and relevance of interactive public spaces in creating vibrant built environment conducive to innovation in service industry.		
L	**TIME FRAME FOR ASSESSMENT SUBMITTALS**		
S. No.	Task Completion schedule	Date	Day
1	Introduction of Design Exercise 1		
2	Pre-Design Modules Submission at 08.00 AM		
3	Submission of Design Modules 1 to 3 at 08.00 AM		
4	Submission of Design Modules 4 to 6 at 09.30 AM		
5	Final submission for Exercise 1 at 08.00 AM Table Jury		
M	**SUBMITTALS GUIDELINES**		
1	All floor plans, sections and elevations shall be at 1:100 scale		
2	All site plans and site sections shall be to 1: 250 scale		
3	All design defining working details shall be drawn to appropriate scale.		
4	Computer generated graphics and drawings shall be printed to appropriate scales as mentioned		
5	Detail model of the proposal at 1: 250 scale .		
N	**ASSESSMENT CRITERIA - 1st EXERCISE**		
1	Pre-design studies and strategies adopted in generating appropriate Stimulant		20 percent
2	Process of Development of Design - Design Modules		20 percent
3	Compliance to Submittal Requirement and Quality of Submittals		10 percent
4	Functional, Services and Structural Integrity in the Development Proposed		30 percent
5	Innovative Design Concept Envisaged with Respect to Development Proposed		20 percent
O	**RECOMMENDED CASE STUDIES**		
1	Courtyard Mariette, Hinjewwadi		
2	Courtyard Mariette, Opposite Ruby Hall, Pune		
3	JW Mariette , S.B. Rod, Pune		
4	Hilton, Pune		
5	Pride Executive, Pune		
6	Pancard Club , Pune		
7	Blue Diamond , Pune		
8	Corinthian , Pune		
9	Hyatt Regency , Pune		
10	The Orchid , Pune		
11	O Hotel , Pune		
12	Le Medridian		
13	The Westin , Pune		
14	Radisson Blue, Pune		
15	Royal Arcade		
16	Sayaji , Wakad, Pune		
17	Citrus, Pimpari Chinchwad		
18	Keys, Pimri Chinchwad		

19	Holiday Inn , Pune	
20	Novatel, Kharadi, Pune	
21	Orchid, Pune	
Note: Each group has to prepare and present primary study findings to the class from the above suggested		
P	**RECOMMENDED REFERENCES (BNCA Library)**	
	HBO + EMTB	Social Spaces.
	Eduard Broto	Today's Culture Facilities.
	Maki and Associates Fumihiko Maki - Buildings and Projects. David Robson	Geoffrey Bawa - the complete works. L'Arca Plus
	Philip Jodidio	Sir Norman Foster
	Olivier Boissiere	Jean Nouvel
	Pandya Yatin	Elements of Space Making.
	Kevin Lynch	Site Planning
	Martin Pegler	Entertainment Dining
	Alan Philips	The Best in Leisure and Public
	Images Publishing	The Master Architect series, Kisho
	Ernst Neufert	Architects' Data
	Time Saver Standards for Architecture, Urban Design and Landscape Architecture	

Fourth Year Studio E Jan 24- May 24

Conservation and Development of Vrindavan's Heritage Core Precinct

Prof Amita Sinha , Prof Shubhada Kamalapurkar, Ar Suneeta Bapat, Ar Kalpana Pednekar

Today's world is moving towards green architecture and sustainability to save the environment and the planet. But there has been a concept that has been forming **this human-environment link** since ancient times.

The concept of *Sacred Landscape-*

- **Sacred Landscapes** are geographic areas with special meaning for people with a historical association and relationship with that place.
- They are generally larger geographical regions connected to **sacred sites**.
- They have a temporal and spatial fabric spread over a geographic area, **unifying all the rituals conducted in that region in a narrative framework.**
- Sacred landscapes are **revered**
- **Intangible values** of the landscape are significant
- Both tangible (streets, religious sites, buildings, etc.) And intangible elements (memories, rituals, etc.) **Interlinked , inter-dependent.**
- These elements bring in a state of **inner peace to human minds**.
- The **physical and spiritual elements** of the space give meaning to human emotions in the landscape and, in turn, imbibe that space's significance in **human memory.**

Introduction

Vrindavan holds a special place in the Hindu cultural imagination as a sylvan landscape associated with Krishna's childhood and adolescence. 'Imagined' is constituted by images that have their roots in ancient memories of groves on the Yamuna riverbank. This vivid cultural image guided place-making in claiming sites as Krishna's *lila-sthals* (sites of playful activities), finding them when they were lost in time, and reclaiming them as his eternal abode.

Vrindavan is a peninsula once surrounded by the River Yamuna on three sides although the river has shifted its course in the last few decades. The core of the town consists of a cluster of temples promontories built since the sixteenth century. These temples were the foci of urban growth as the

settlement expanded around them. The tree groves (*kunj*) were cleared over time to build mansions that were called *kunj* as well. The temple compounds with their wells, shrines, and courtyards known as *gheras,* are on or close to the banks of the Yamuna. The 10-kilometer-long circumambulatory path (*panchkroshi parikrama marg*) delineates the sacred territory of Vrindavan and around 1.8 kilometers stretch lies on the Yamuna riverfront. The street structure organically evolved to connect the temples to the *parikrama marg* and to each other.

The core of the temple town of Vrindavan designated as a protected heritage zone of 150 hectares on the Yamuna Riverfront is visited by millions of pilgrims. Its immense built and intangible heritage warrants its designation as an UNESCO World Heritage Site.

Challenges to conservation of Vrindavan heritage zone include:
Environmental: The growth of Vrindavan over five centuries has led to a steady decline of groves associated with Krishna's legends. This is not only a loss in symbolic meanings but also has environmental consequences in urban heat island effects, increased air pollution, and riverbank erosion. The flow of River Yamuna has reduced plus the drastic change in its course has resulted in historic ghats no longer touching water.
Urban: The historic core is densely built up with a population density of 11,688 people/sq km and built to an open ratio of 78:22. The major streets are congested with encroachments and high volume of mixed traffic of humans, animals, and vehicles. Open surface drains littered with solid waste are a public health hazard. Lack of street lighting and signage negatively impacts accessibility and legibility. Public conveniences are inadequate
Built: Only five historic temples are protected. A large number of historic structures have not been listed as heritage properties and can be demolished anytime. Absence of ownership records, historic photographs, and building inventory and surveys coupled with lack of institutional mechanisms for procuring financial resources for restoration has led to large scale deterioration of historic buildings.

Objectives

1. Understanding the sacred landscape of Braj and Vrindavan , layers of history through expert talks and documents / reports/ research papers
2. Conducting surveys and developing inventories of temples and other associated typologies of Vrindavan
3. Understanding the stories and legends associated with them and current associations of the pilgrims and locals
4. Understanding challenges and threats to the sacred landscape , social, cultural, environmental impacts of tourism and pilgrimage
5. Developing master plan for entire heritage core, conservation and development strategies for various precincts, pilgrim and tourism infrastructure, infrastructure for locals.
6. Designing appropriate built typologies /interventions which are relevant , contextual and understanding the current and future needs.

Site workshop

Site workshop (26 Jan to 1st feb , 2024) will be an opportunity to study and map the heritage core as a historic urban landscape using satellite images, GIS data, field observations, and interview data. Preliminary mapping and proposals will be developed in a semester-long urban design studio. Planning, design, and management for conserving the heritage core can meet the UN Sustainable Development Goals.

Environmental sustainability can be promoted by augmenting green cover through tree planting along the *parikrama* path on the riverfront and other public open spaces. This would mitigate the heat island effect and provide shade to walking and prostrating pilgrims. Protection of the riverfront is an opportunity for increasing public space with minimal disturbance to the floodplain ecology. Restoring sacred wells and tanks would improve the groundwater table. Waste management through recycling and treating biodegradable waste as a source of energy will mitigate air and water pollution.
Social sustainability can be promoted by improving the quality of public spaces by removing encroachments and managing traffic so that large gatherings during pulse events can be organized with minimal risks to health and well-being. For small gatherings of pilgrims, shaded squares at street intersections and temple forecourts, and on the riverfront will add to a sense of *communitas*, strengthening bonds with others and with the place.
Economic sustainability can be promoted by protection, preservation, and adaptive reuse of heritage structures thereby creating opportunities for revenue generation leading to improvement in quality of life of the residents. Streetscape improvement through lighting, signage, public sanitation program, and façade improvement will encourage the visitor to have an aesthetic experience of moving through winding, shaded streets scaled to the human body. The provision of home stays in old heritage buildings would make the historic core a tourist destination in addition to being a pilgrimage site.

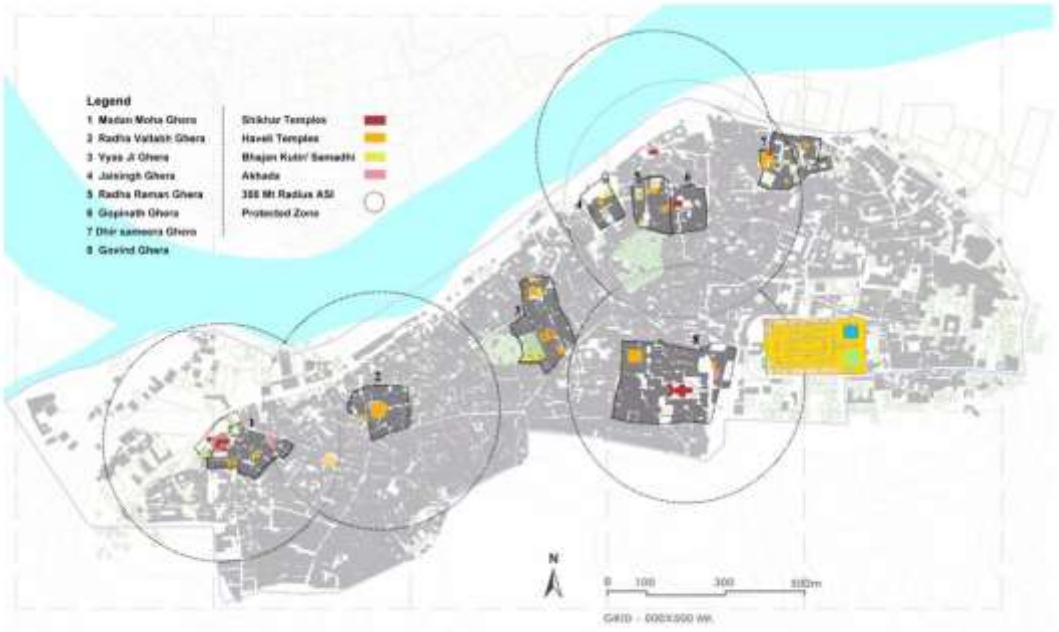
Expected outcome

Specifically, urban design proposals will include:
--protecting and developing *gheras* (heritage precincts) in the 300 meters regulated zone around the five historic temples—Madan Mohan, Radhavallabh, Jugal Kishor, Gopinath, and Govind-dev
--developing the riverfront and the parikrama path in as a blue-greenway in keeping with the archetypal image of riverfront *kunjs*
--open space augmentation using the concept of constructive surgery to enhance *chowks*, widen streets, and introduce greenery, especially in congested areas such as Banke Bihari precinct
--improving connectivity and legibility in the urban core through streetscape improvements

The proposed heritage conservation of the historic core of Vrindavan is timely in light of several issues of global importance—climate change and the urgent need for a new paradigm of thinking about overcoming the divide between science and faith to re-establish harmony with nature. In planning the future of this immensely significant pilgrimage destination as climate smart, i.e., resilient in the face of

climate change would be an alternative to currently practiced ‘smart growth’ planning scenarios in which emphasis is placed on infrastructure development that has drastic environmental consequences.

The outcome of the studio (Understanding Cultural landscapes of Krishna through legends and texts, Site specific studies ,Master plan for Heritage core of Vrindavan and built interventions) will be an exhibition of selected projects and a report submitted to UP Tourism, ASI, State Archeology, and Mathura-Vrindavan Development Authority.



LIST OF STUDENTS (41 NO.)

1	**Madan mohan ghera:**
	Isha Bajpai
	Vrushali Shete
	Sakshi Bajaj
4	**Radha vallab ghera:**
	Srushti Shetty
	Mudita Mahale
	Aditi Paul
3	**Seva Kunj/ Vyasji ghera:**
	Muskaan Joshi
	Diksha Taskar
	Anupriya Dhulaj
2	**4 5 6 ghera:**
	Siddhata Bendre
	Revati Sangam
	Shubhada Shivankar
	Ashlesha Durgule
	Anuja Vidhate
	Maitreyee Bakare
7	**Govind ghera:**
	Divya Jadhav
	Sakshi Kokare
	Janhavi Ganjiwale
6	**Rangji Temple:**
	Geetika Pradhan
	Shreya Kale
	Samruddhi Mungase
5	**Banke Bihari:**
	Aditi Rayate
	Siddhi Tiwaskar
	Samruddhi Ise
	Diya Jain

8	**PARIKRAMA PATH:***
	Riya Mane
	Saba Shaikh
	Vaidehi Joshi
	Navyutha Vinod
9	**RIVERFRONT:***
a	Hemansha Mail
	Sayali Khare
	Gargi Rajjansa
b	Vedanti Acharya
	Srushti Nagmote
	Vaidehi Thigale
c	Prajakta Sakore
	Aditi Navale
	Riddhi Doshi
10	**Dheer Sameera**
	Darshika Patil
	Ketaki Badhe
	Sneha Patil

MAHARSHI KARVE STREE SHIKSHAN SAMSTHA
Affiliated to Savitribai Phule Pune University.(SPPU)
University Affiliation No.: PU/PN/ARCH/109/1994.
Approved by:
*Council of Architecture.(COA),New Delhi
*All India Council for Technical Education (AICTE)
*National Assessment & Accreditation Council(NAAC)

BNCA
DR.BHANUBEN NANAVATI
COLLEGE OF ARCHITECTURE
FOR WOMEN
Gate No:04, BNCA Campus,
Cummins College Road,
Karve Nagar, Pune 411 052.
Ph: +91 20 25474062 / 25476966
E-mail:mail@bnca.ac.in, www.bnca.ac.in

Criterion 1.3- Curriculum Enrichment

1.3.1

CROSS CUTTUNG ISSUE: GENDER EQUALITY

Architectural Design briefs

STUDIO A

Architectural Design Brief for Women's Empowerment Center-

The project is envisioned Taking into consideration the robust food and textile industry in the Ahmadabad. It plans for a Campus for Women's empowerment, which is proposed in the city near the Gandhi Ashram on the banks of river Sabarmati. The vocational training institute is based on Gandhi's principles of self-reliance and the empowerment of masses.

This dynamic hub designed to celebrate and nurture the rich skill set of the region & culturally vibrant city. The center, located centrally in the city aims to provide a transformative space where textile creativity flourishes, culinary skills are enhanced as a community, as well as tourist's engagement thrives. The project also tries to include environmentally conscious practices to minimize its ecological footprint. The center needs to be designed with inclusivity in mind, ensuring accessibility for people of all abilities.

Project Objectives:
The primary objectives of the center include:

- **Promoting Sales of Textile and Culinary foods:** To provide a platform for entrepreneurs and small women groups to create and sell their products.
- **Skill Development:** To offer comprehensive art and craft education, workshops, and training programs, empowering individuals to develop and enhance their artistic skills.
- **Cultural Identity in the city:** To preserve and showcase the diverse cultural heritage of Ahemadabad and the surrounding regions through artistic endeavors.
- **Women's Empowerment:** To serve as a gathering place for the community women, promoting interaction, collaboration, and the exchange of ideas among artists, students, and enthusiasts.

Users and Occupancy:

- Working Staff as per hierarchy, Trainees, Tourists / visitors for the Centre, for various events and exhibitions etc.

Program Brief:

Administrative Block-

1)Reception+ Entrance Lobby- 40 SqM.

2)Director's Cabin with attached toilet-20 SqM.

3)Office area for staff- 5 pax -30SqM

4)Records-10SqM

5)Library-20SqM

6)Board room-30SqM

Textile Industry Skills Training-

1)Workshops -160 SqM (40 SqM each)

(Material development, Aplique and embroidery ,Block printing, Bandhani)

2)Gallery Space-50SqM

3)Store-25 SqM

Culinary Skills Training Department-

1)Lecture Hall-40SqM

2)Kitchen -120Sqm

(For making Khakras,Theplas,Fafdas,Ganthia,Khaman Dhokla,Chorafali,Pickles,Sev mamra etc)

3)Dry Storage-25 SqM

4)Cold Storage-10 SqM

5)Wash area-As required.

6)Packing Area-40SqM

Common Facilities-

1)Toilets and Locker rooms-Area as required

2)Auditorium-75 SqM

3)Sale Shop for products-60 SqM

4)Cafeteria-50 SqM

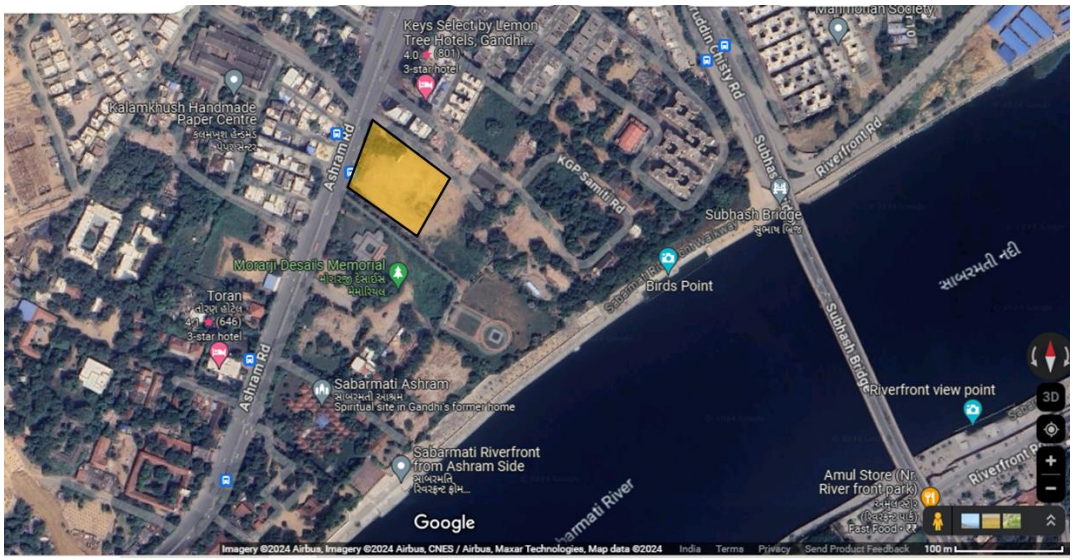
5)Day Care-30 SqM

6)Security Cabin-As required

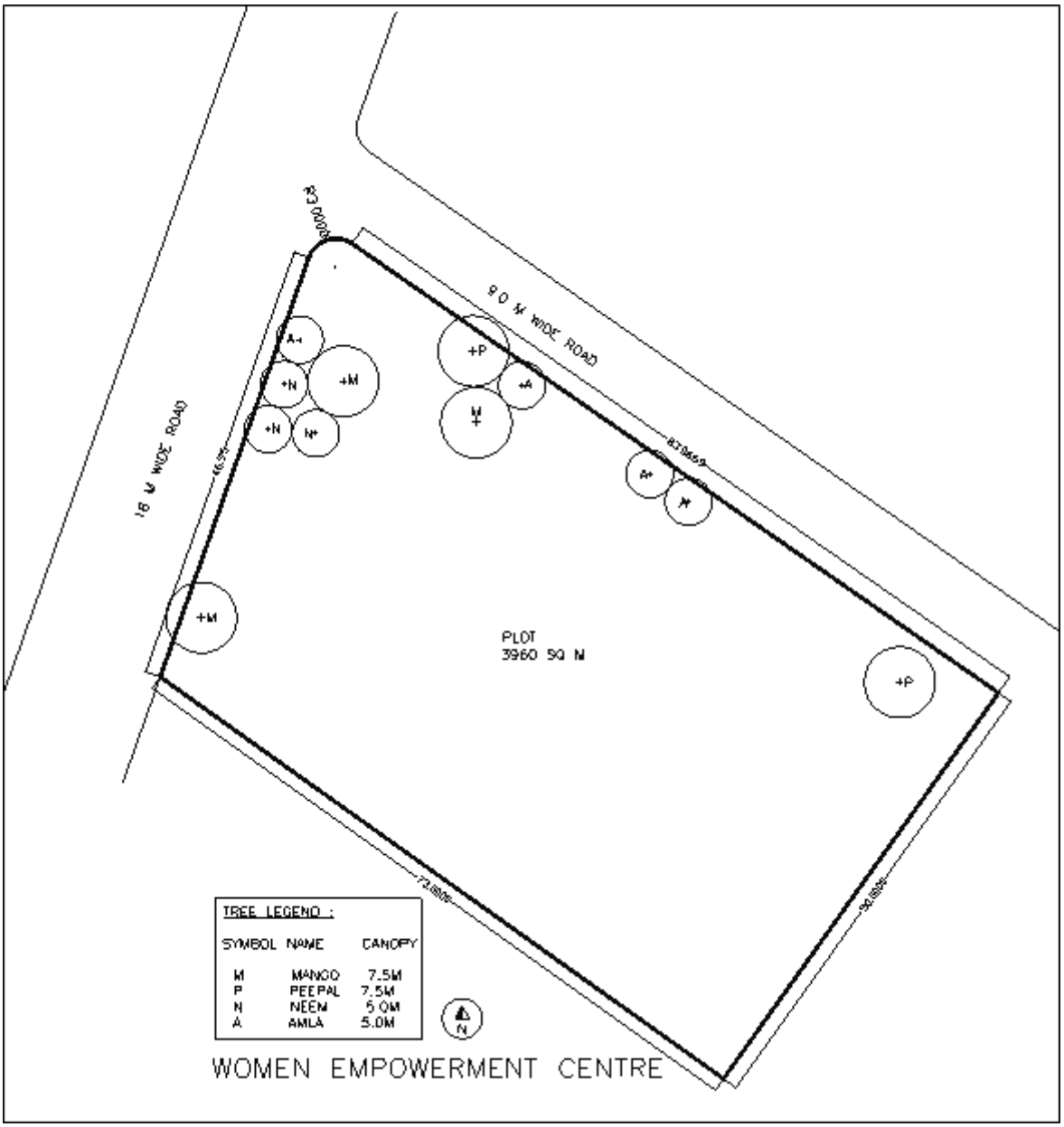
7)Parking-10 cars and 60 two wheelers.

Site Context and Location:

The center is strategically situated in Ahmadabad, taking into account the place significance and accessibility from tourist destinations / city access (marked in yellow). The site will be designed to harmonize with the surrounding environment, offering a serene yet infrastructural adequate center for artistic and tourist endeavors.



Site:


9.0 M WIDE ROAD
16 M WIDE ROAD
PLOT
3960 SQ M
TREE LEGEND :
SYMBOL NAME CANOPY
M MANGO 7.5M
P PEEPAL 7.5M
N NEEM 5.0M
A AMLA 5.0M
N
WOMEN EMPOWERMENT CENTRE

STUDIO B

THE ART & CRAFT FACILITATION CENTRE AT ADALAJ

The project is envisioned as a dynamic hub designed to celebrate and nurture the rich artistic heritage of the region & culturally vibrant city of Bhuj. The center at Adalaj, located centrally aims to provide a transformative space where creativity flourishes, artistic skills are enhanced, and community as well as tourist's engagement thrives. The project aims to design versatile spaces designed to accommodate a variety of art forms and activities, weaving techniques ensuring the center remains adaptable to evolving artistic trends and community needs. The project also tries to include environmentally conscious practices to minimize its ecological footprint. The center needs to be designed with inclusivity in mind, ensuring accessibility for people of all abilities.

Project Objectives:
The primary objectives of the center include:

- **Promoting Artistic Expression:** To provide a platform that fosters artistic expression and exploration across various mediums, from traditional crafts to fabric weaving techniques.
- **Cultural Preservation:** To preserve and showcase the diverse cultural heritage of Bhuj and the surrounding regions through artistic endeavors.
- **Skill Development:** To offer comprehensive art and craft education, workshops, and training programs, empowering individuals to develop and enhance their artistic skills.
- **Community Engagement:** To serve as a gathering place for the community, promoting interaction, collaboration, and the exchange of ideas among artists, students, and enthusiasts.

Users and Occupancy:
The facility is designed to cater to a diverse range of users, including:

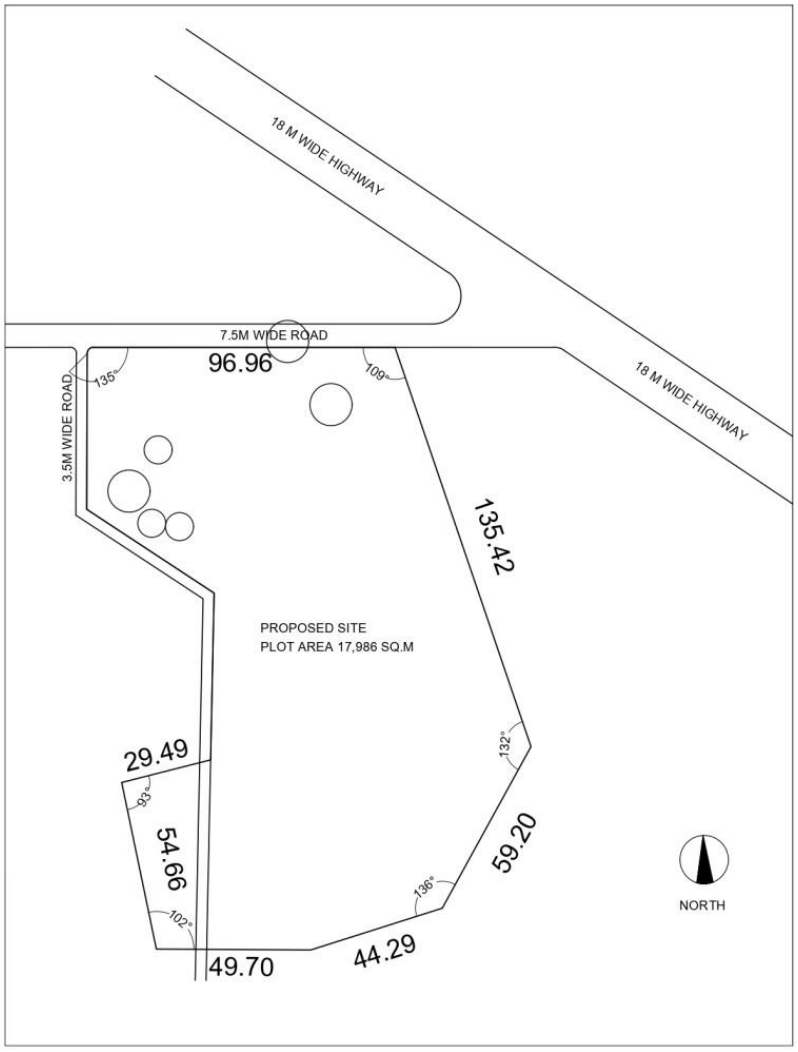
- **Artists:** Providing dedicated studios and workspaces for both emerging and established artists.
- **Students:** Offering classrooms and learning spaces for art and craft education programs.
- **Community Members:** Welcoming the local community to engage in exhibitions, events, and collaborative projects.
- **Tourists:** Creating awareness about the rich art & craft heritage among tourists visiting from all parts of India and abroad.

Program Brief:

To be added by the students : The program brief will differ for every student as per her understanding of the project

Site Information:

The center will be strategically situated in Adalaj, taking into account the place significance and accessibility from all possible tourist destinations. The site will be designed to harmonize with the surrounding environment, offering a serene yet infrastructurally adequate center for artistic endeavors.



Site Information:

Course Objectives No	CO1	CO2	CO3	CO4	CO5	CO6	CO7
Description of Course Objectives	**Case study analysis:** To learn from case, referral, live studies - process of observation, analysis, documentation and deriving inferences.	**Site analysis** :To understand the site and its context, both immediate and wider	**The program brief:** To understand space diagrams based on the socio-cultural profile of the project & to derive a suitable brief	**The zoning alternatives**: essential adjacencies of spaces, ease and efficiency of circulation, user-space relationship,	**Floor plan:** To address functional aspects of design (activity, use of space, adequacy and efficiency of space for a particular activity) light, ventilation	**Sections:** To address vertical connections, volumetric scale and proportions	**Other details:** Passive strategy ideation, Façade development ideation, Material exploration
Maximum Marks	20	10	10	20	20	10	10

STUDIO C AND D

Sangam Mahuli Community Development and Resource Centre

Design a sustainable and culturally sensitive Community Development Centre and Resource Centre on the river banks near the confluence, integrating seamlessly with the cultural context of the ghats.

Context:
Sangam Mahuli holds cultural significance due to its proximity to the confluence of rivers. The design should respect and enhance the existing cultural elements, reflecting a blend of tradition and modernity. The center aims to foster community development, promote education, and serve as a resource hub for the local population.

KEY FEATURES AND FUNCTIONS:

Cultural Integration:

Incorporate architectural elements inspired by local cultural and traditional designs.
Utilize materials that resonate with the surroundings, paying homage to the existing ghats.

Multi-functional Spaces:
Design versatile spaces that can accommodate community gatherings, workshops, educational programs, and cultural events.
Create flexible indoor and outdoor spaces that adapt to various community needs.

Sustainability:
Implement sustainable design principles, including energy-efficient systems, rainwater harvesting, and use of locally sourced materials.
Integrate green spaces and landscaping to enhance the environmental sustainability of the project.

Inclusivity:
Ensure accessibility for all community members, including those with disabilities.
Foster a sense of inclusivity through design, promoting interaction among different age groups and socio-economic backgrounds.

Educational Facilities:
Include classrooms and spaces for skill development programs, workshops, and training sessions.
Develop a resource center with a library and digital resources for educational purposes.

Riverfront Connectivity:
Enhance the connection between the center and the riverbanks, creating spaces for contemplation and relaxation.

Design pathways and seating areas to encourage community members to engage with the river.

Local Economic Development:
Integrate spaces for local artisans to showcase and sell their products.
Design facilities that support small-scale businesses and entrepreneurship within the community.
Public Art:
Incorporate public art installations that celebrate the local culture and history.
Engage local artists in creating murals, sculptures, or other forms of art that tell the story of Sangam Mahuli.

Guidelines for Submission:

- Provide detailed architectural drawings, including floor plans, elevations, and sections.
- Include a landscape design that complements the architectural vision.
- Include a community engagement strategy for involving local residents in the development process.
  - Water edge is an important contextual elements

Notes:

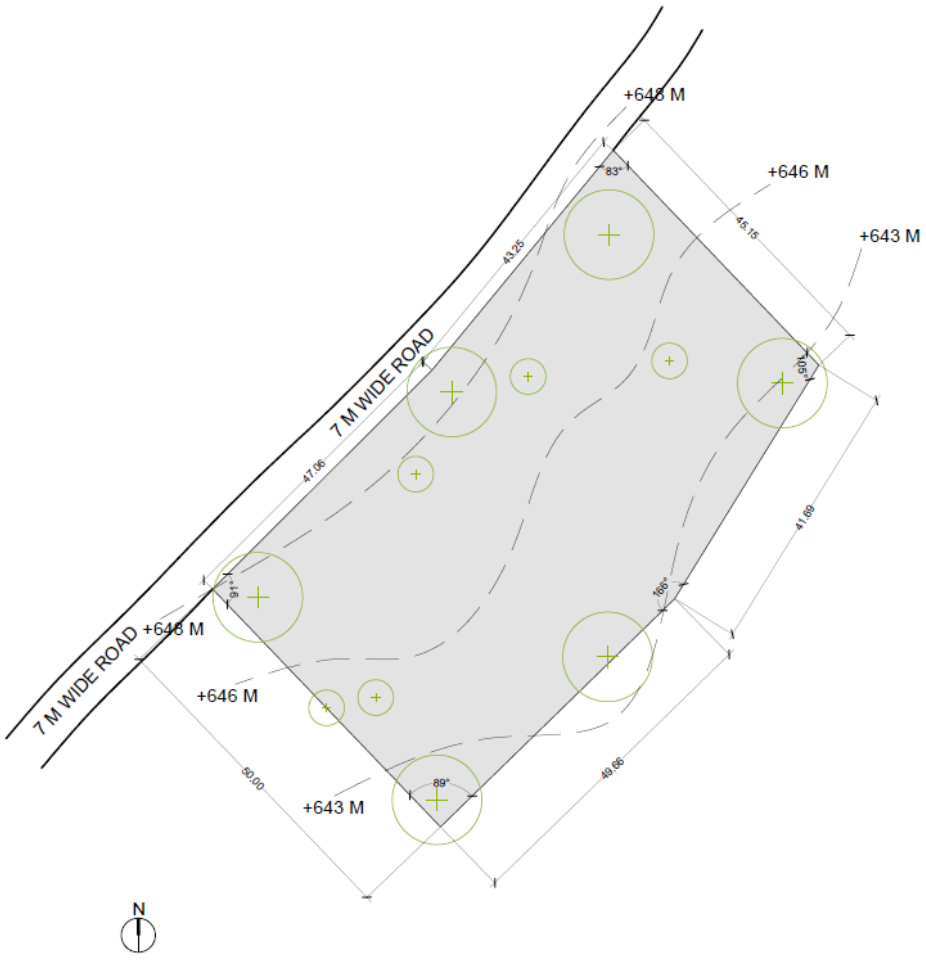
- Standard Sizes to be considered wherever necessary.

- 12 to 15 % Circulation Area to be added to the above area program.

Documentation of the settlement:

Studio 2 C & D | Points for Documentation at Individual Level | Sem IV | AD III							
Sr. No		**Points to Study**	**What to Study**	**Mode of Documentation**	**Details to Document**	**Numbers**	**Remarks**
1		Climate & Response	Sun, Wind, Light Shade, Insulate, Ventilate	Photos, Sketches	Document how Architecture responds to Sun, Wind & Light through Plans / Sections / Elevations / Elements	03 Each	
2		Documenting Transition: Heirarchy of Spaces through Sections	Indoor to Outdoor, Inside Indoors In the town & Street Sections	Scaled Sketches	Document Transition for: Public to Private Spaces, Public to Public Spaces, Sacred / Spiritual to Private Spaces, Open Spaces, Sacred / Spiritual to Water Edge, etc	03 Each	Combinations are important
3		Finishes & Textures	Collating Visual & Tactile Material pallette Colour, Size, Thickness, Origin, etc	Photos, Sketches, Imprints	Document variety in Visual Textures, application & use		Compare
4	A	Document Architectural Features	Significant Architectural Elements Across the Built Environment	Photos, Sketches	Document Elements across different Architectural typologies	03 Nos Each	
	B	Elements of Design	Symmetry, Hierarchy, Scale, Monotony, Colour, Balance	Photos, Sketches, Charts	Documents Principles of Design through Built & Unbuilt		
	C	Documenting One Building Element	One Element Across the Towns	Photos, Sketches			
	D	Documenting One Specific Colour	One Colour Across the Towns	Photos	Document & Create Photomontage		
5		**Kevin Lynch Principles**					
	A	Edges		Photos, Sketches	Documenting edges of the town by Studying Structures, Flora Fauna, Materials		Streets, Plots, Village
	B	Serial Vision	Change of use, change is volumes, change is space arrangements	Photos, Sketches	Documenting through chain sketches, continous photographs		
	C	Identify Landmarks	Why is it a landmark? Character?	Photos, Sketches			
	D	Identify Nodes	Transition, Level Changes, Landuse changes	Photos, Sketches			

Site:



SITE AREA : 4435 SQ.M.

MAHARSHI KARVE STREE SHIKSHAN SAMSTHA

Affiliated to Savitribai Phule Pune University.(SPPU)
University Affiliation No.: PU/PN/ARCH/109/1994.
Approved by:
*Council of Architecture.(COA),New Delhi
*All India Council for Technical Education (AICTE)
*National Assessment & Accreditation Council(NAAC)

BNCA
DR.BHANUBEN NANAVATI
COLLEGE OF ARCHITECTURE
FOR WOMEN
Gate No:04, BNCA Campus,
Cummins College Road,
Karve Nagar, Pune 411 052.
Ph: +91 20 25474062 / 25476966
E-mail:mail@bnca.ac.in, www.bnca.ac.in

Criterion 1.3- Curriculum Enrichment

1.3.1

CROSS CUTTUNG ISSUE: PROFESSIONAL ETHICS

Architectural Design briefs

MAHARSHI KARVE STREE SHIKSHAN SAMSTHA

Affiliated to Savitribai Phule Pune University.(SPPU)
University Affiliation No.: PU/PN/ARCH/109/1994.
Approved by:
*Council of Architecture.(COA),New Delhi
*All India Council for Technical Education (AICTE)
*National Assessment & Accreditation Council(NAAC)

BNCA
DR.BHANUBEN NANAVATI
COLLEGE OF ARCHITECTURE
FOR WOMEN
Gate No:04, BNCA Campus,
Cummins College Road,
Karve Nagar, Pune 411 052.
Ph: +91 20 25474062 / 25476966
E-mail:mail@bnca.ac.in, www.bnca.ac.in

Criterion 1.3- Curriculum Enrichment

1.3.1

CROSS CUTTUNG ISSUE: PROFESSIONAL ETHICS

Architectural Design briefs

de Asra

Powering businesses. Creating jobs.

INSPIRE

Proposal - deAsra INSPIRE for MKSSS BNCA

deAsra
Powering businesses. Creating jobs.

Proposal & Quotation for deAsra INSPIRE

bout deAsra

Asra Foundation is a not-for-profit organization founded by Dr. Anand Deshpande (Founder & hairman - Persistent Systems Ltd.). It was founded in 2015 with the vision of 'Empowering local no businesses to Start, Stabilize and Scale, creating more jobs.' Since its inception, deAsra has been osely associated with a number of traditional nano businesses and has supported them with various sources in their journey. It has been connected to over 2,30,000+ people through its platform ww.deasra.in which has a pan India reach. deAsra currently works with 3 focus areas -

eed - Building an Entrepreneurial Mindset (Education - Mindset and Business skills training, xposure to entrepreneurship, Experience business in action)

oil - Start for those ready to start, Stabilize for those with <10 lacs in annual revenue, Scale for those ith >10 lacs in annual revenue

urround - Inform & influence policy makers & ecosystem, create fostering climate

bout Inspire

eAsra INSPIRE is a program designed to introduce the young minds to the entrepreneurial instinct within em and help them nurture their entrepreneurial characteristics for personal and professional benefits. eAsra INSPIRE takes an individual through a journey starting from understanding their ability to think and ct as an entrepreneur, developing various life skills around which help create their entrepreneurial mindset. he nurtured minds are then introduced to the process of developing their own business, starting from enerating a viable business idea to the essentials for executing it.

bjective of the course

- Youth is aware about the vital life skills which will make them responsible, dynamic and self-sustaining individuals
- Youth considers entrepreneurship as a career option
- Youth is confident and equipped to take-up entrepreneurship

ighlights of the course

- It is a series of activity-based workshops, which intends to develop the entrepreneurial mindset within the youth.
- It follows a structured pedagogical approach, which demonstrates, discusses, informs, gives hand-on exposure and hands-on experience across all the modules.
- It is designed by subject-matter experts who have 25+ years of experience in both industry and academia.

Proposed Course for BNCA students -

A 2 credit course with 25 hours of class-room learning and 5 hours of out-of-the-class activities (30 hours)
An assessment for each of the modules will be conducted in the form assignments and during the class activities. The marking system for the same can be decided along with the faculties of BNCA.

Syllabus for the course

Topic 1 - Entrepreneurial Mindset

1.1 Understanding entrepreneurial characteristics and their identification within oneself
1.2 Application of entrepreneurial characteristics in day to day life
1.3 Career planning and milestones with application of entrepreneurial qualities
1.4 Preparing oneself for entrepreneurship and intrapreneurship
1.5 Understanding importance of collaboration in entrepreneurship

Topic 2 - Managing Personal Finance

2.1 Understanding importance of managing personal finance
2.2 Learning various heads which should be considered to manage the money
2.3 Experimenting the impact of various decisions on effective money management
2.4 Tricks and benefits of effective and strategic money management
2.5 Developing money management as a habit

Topic 3 - Self-branding & Selling your skills

3.1 Understanding the importance of being an individual brand
3.2 Activities to build oneself as a 'brand'
3.3 Elements of selling your skills in the professional world
3.4 Key elements of sells pitch for individual's skills
3.4 Practicing building own sells pitch
3.5 Developing right confidence and soft skills for effective selling

Topic 4 - Problem Solving as a life-skill

4.1 Introduction to 'Design Thinking' as a tool to solve problems
4.2 Process of Design Thinking
4.3 Process of validating and confirming the solution
4.4 Application of Design Thinking on day to day problems/challenges

Topic 5 - Business Idea Generation

5.1 Understanding importance of a good business idea
5.2 Introduction to a technique to develop multiple business ideas
5.3 Re-assuring identified business ideas
5.4 Freezing a business idea

Topic 6 - Business Planning

6.1 Understanding importance of business planning for the idea
6.2 Learning each element of business planning through a comprehensive format
6.3 Application of IPR in Business Planning & Development
6.4 Building a business plan
6.5 Presenting a business plan

Topic 7 - Sales & Marketing for Business

7.1 Understanding basics of Sales and Marketing
7.2 Study various marketing strategies
7.3 Study various sales strategies
7.4 Prepare a basic marketing plan for a business idea
7.5 Prepare a basic sales plan for a business idea

Topic 8 - Cost Calculation and Loan-readiness for debt-funding

8.1 Understanding the requirement of funds for starting a business
8.2 Understand the different types of fund-raising
8.3 Learning features of debt funding
8.4 Understanding various factors the impact loan-readiness
8.5 Preparing a funding proposal for the business idea

Execution of the syllabus

Proposed for 2 weeks 15 hours each (3 days a week)

Week 1 - Day 1

Module Title & Duration	Out-of-the-class activity & Duration	Learning Outcomes
Mind Matters Workshop (3 hours)	Watch an Interview of Dr. Anand Deshpande (2 hours) *Student Deliverable - Document of Learnings*	- Participants identify various entrepreneurial characteristics within themselves - Participants apply the identified characteristics in sample daily life scenarios
Money Matters Workshop (3 hours)	Prepare own structure to manage actual individual finance (30 mins) *Student Deliverable - Document with the structure*	- Participants are equipped with various tricks to manage personal finances better

Week 1 - Day 2

Module Title & Duration	Out-of-the-class activity & Duration	Learning Outcomes
Self-branding & Sales Matters Workshop (3 hours)	Develop a 1-min sales pitch Prepare a calendar for your brand making (1 hour) *Student Deliverable - Video recorded with the sales pitch, Calendar plan for personal brand development*	- Understand self branding as a part of career building. - Develop networking skills - Participants can sell their abilities as skills better in any situation - Develop confidence to sell effectively
Problem Solving Workshop (3 hours)	Identify examples of Design Thinking around (1 hour 30 mins) *Student Deliverable - Document elaborating two examples*	- Participants are introduced to Design thinking as a tool to solve problems in daily life & enterprising

ek 1 - Day 3

lodule Title & Duration	Out-of-the-class activity & Duration	Learning Outcomes
leathon 3 hours)	NA	- Participants apply design thinking to small challenges in daily life

eek 2 - Day 1

Module Title & Duration	Out-of-the-class activity & Duration	Learning Outcomes
Business Idea Generation Workshop (3 hours)	Study the market for your business idea and understand the factors affecting your business idea (document) (2 hours) *Student Deliverable - Document mentioning the factors/trends identified*	- Participants learn one of the most used and effective way to generate simplest of business ideas - Participants generate a business idea which can be executed with Rs. 10,000 as the capital
Business Planning Workshop (3 hours)	Prepare a business plan for a well known business as per outsiders understanding. Identify IPR implications in this business (1 hour 30 mins) *Student Deliverable - Document showcasing the plan*	- Participants learn a simplest method of elaborating and visualizing the business idea in order to have a holistic view of it - Participants can start the execution plan for their business - Participants understand the implications of IPR in any given business.

Week 2 - Day 2

Module Title & Duration	Out-of-the-class activity & Duration	Learning Outcomes
Sales & Marketing Workshop (3 hours)	Prepare a sales & marketing strategy for the given business (Business will be assigned by deAsra) (2 hour) *Student Deliverables - Document mentioning the Sales & Marketing Strategy*	- Participants learn the interesting aspects and used cases of role of Sales and Marketing for business - Participants create a brief sales & marketing plan for their business idea
Cost Calculation & Getting Loan-ready Workshop (3 hours)	Prepare a cost structure for a given product/service. Visit a bank and understand the process and requirements to acquire a business loan	- Participants understand costing of product or service - Participants understand various concepts & aspects about taking loan

	(2 hours 30 mins) *Student Deliverables - Cost structure for the given product/service.* *Document mentioning the process and requirements*	- Participants create a sample loan proposal for their business idea

eek 2 - Day 3

Module Title & Duration (30 hours)	Out-of-the-class activity & Duration	Learning Outcomes
Entrethon (3 hours)	NA	- Participants learn the progression of developing a business idea towards execution - Participants get a template which can be used for actual business idea development in future

Mode of Delivery

- The workshops will be delivered in an offline mode in a classroom with the help of audio visual resources, PPTs and interactions.
- The students will be made to perform certain activities during the workshops which will deliver the learning through on-hands experience.

he pedagogy followed for the delivery of each workshop is -
emonstrate, Discuss, Inform, Hands-on exposure & Hands-on experience

eading references and case studies will be shared with the students at appropriate points during the elivery of the syllabus. (Mentioned in Annexure II)

eliverables of the course

- Tools, Templates and Techniques for implementation of various learning activities
- Access to deAsra's ecosystem
- Free subscription to 'Yashaswi Udyojak' (deAsra's e-magazine initiative)
- Certification of Completion

nal Outcomes expected

The students have learnt life skills such as problem solving, creative thinking, communication, team work, selling effectively, managing personal finances, collaboration and leadership.
The entrepreneurial mindset is developed within the students and they are equipped and confident about entrepreneurship, that they were before the course.
The students have started considering entrepreneurship as a career option, for now or later.

icing & Execution -

Basic amenities like presentation screen, projector, white board marker, etc. will be required from BNCA.
Other stationery will be provided.
These workshops are expected to be conducted for the 2 cohorts having 80 students each.
The pricing for the above mentioned course will be Rs. 1,000/hour/batch.
The total pricing for conducting the course for 160 students will be Rs. 60,000 + 18% GST.

nnexure

ne following experts have designed and curated the above-mentioned modules through their experience and pertise in the particular domain and work with industry as well as academia.

r. Anand Godse

Entrepreneur Transformation Expert, Practicing Psychologist, PhD in Suryanamaskar and Mental Health)

e is an expert in the field of Psychology. Supporting entrepreneurs during their journey through soft skills, mmunication, emotional intelligence, and other areas of self awareness is Dr. Anand's core expertise. He orks with the transformation process for entrepreneurs by working on their personal growth, behavior, rofessionalism, team building, confidence, entrepreneurial mindset as well as satisfaction and happiness uring work. He is also specialized in working with young entrepreneurs and college students during their arly phase of entrepreneurship.

r. Jyoti Gogte

PhD in Entrepreneurship Development, Mentor Expert for Business Planning, Administration & Funding)

he is a serial entrepreneur for more than 35 years. She has led businesses in manufacturing industry, trading ctivities, service industry, training institute, carrying & forwarding agency. She owns a business engaged in nanufacturing multipurpose lap trays under the name of Komfy Dynamics LLP. An academician for more han 10 years, she is a PhD guide with SPPU. With her mission to support small business grow and sustain he is associated as an expert with deAsra Foundation, Bhau Institute COEP, TATA Strive, MES Garware College of Commerce, Parle Tilak Vidyalaya, Mumbai and Vidyarthi Sahayak Samiti.

Mr. Abhay Kardeguddi

Expert in Sales, Marketing and CRM for MSMEs)

He has guided about 250+ MSMEs on Strategy, Sales, Marketing, Service, CRM and Entrepreneurship. Conducted 450+ workshops on Sales, Marketing and CRM for diverse groups in India and Abroad. He has been a guest faculty for many post graduate programs for the last 20 years, taking his consultancy and training learning into the classroom. He is on the Board of Studies for Symbiosis (SSOU), Shivaji University, Advisory team - MITCON, MITU, Shillong. He has authored 3 books on CRM - Customer Relationship Management for SCDL - Symbiosis Centre for distance learning. Research and writing 4th book on Practical Sales and Marketing. Writing BPC - Business Post Corona Series on LinkedIn. Along with this diverse experience he has been an entrepreneur for the last 17 years with a business of "Eco-friendly" products - Karwak - Eco matters.

Mr. Uday Tickoo
(Finance Expert, Founder - Wise Chanakya)

He is passionate about building a strong foundation for kids and young adults in terms of money management, planning, idea generation and business thinking. He is engaged in equipping kids and young adults with Money Skills and Peoples Skills (Financial Literacy and Entrepreneurial Leadership skills) to make a positive impact in their overall lives. His mission is to contribute to making India a Financially Literate Nation.

Mr. Dhruv Paknikar
(Impact Designer, Global Entrepreneur, Founder - Dominix Global)

Dhruva Paknikar is a prolific designer and a global entrepreneur. Dhruva has designed more than 500 brands and products selling gloriously in the international markets. Many of his works hold international awards. Dhruva is a design mentor at Encubay- Greenhouse Capital Africa, Midas Institutes, MIT School of Business, ATAL tinkering labs, VIT, Spacers, Venture Centre, and JKKN (Govt. of Jammu & Kashmir). He has guided more than 100 startups in the domains of Design, Design Thinking, and Design Driven Strategies. In 2020, Dhruva was appointed on the Industrial Advisory Board of one of the best Universities in India- Vishwakarma University- making him the youngest board advisor in the University history!

In order to scale the initiative, these experts have trained the following facilitators providing them with required resources to conduct these workshops effectively for students.

Ms. Manisha Tapaswi
(HR Professional, Faculty for HRM, Certified Experiential Learning Trainer)

She has a rich corporate background of 25+ years in employee engagement, employee experience, employee retention, OD, HR shared services globally. She has also led Persistent Foundation operations for some years. She is a certified experiential learning facilitator trainer.

Ms. Pratima Joshi
(Engineer, Faculty for Engineering)

She has 25+ years in the field of Data Science and automation. She has been a faculty for Data Analytics with Python, Principles of Programming Languages for the last 8+ years. An enthusiast for entrepreneurship and people interaction, she is currently volunteering to develop and support small businesses.

s. Aishwarya Kulkarni
enior Executive - deAsra Foundation)

ishwarya Kulkarni is a commerce graduate with specialization in costing. She has been working to support d strengthen the nano business ecosystem through the deAsra Foundation. She has been a food ntrepreneur for the last 4 years. She also specializes in branding content and designing of branding content r small businesses and corporations. Pursuing her masters in business administration in operations anagement, she is working towards applying for a PhD.