



Vishnu Waman Thakur Charitable Trust's

VIVA SCHOOL OF ARCHITECTURE

Approved by Council of Architecture, New Delhi and Affiliated to University of Mumbai

Website: www.vivaarch.org

E-mail : principal@vivaarch.org & admin@vivaarch.org

Shri. Hitendra V. Thakur
President

Ms. Aparna P. Thakur
Secretary

Prof. Chakor A. Mehta
Principal

CRITERIA 1 – CURRICULAR ASPECTS

KEY INDICATOR: 1.3 Curriculum Enrichment

1.3.1, 1.3.2

ACADEMIC YEAR: 2018 – 2023



Prof. Chakor A. Mehta
Principal

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Key Indicator- 1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Academic Year 2018-19 to 2022-23				
Sr. No.	course code	Course name	Course objectives	Cross Cutting issues Professional Ethics, Gender, Human Values, Environment and Sustainability
Sem - 1	BARC 101	Architectural Design Studio-1	Understanding the human body in space Activities and their relationship with spaces Scales and proportions Exposure to architecture, Exposure to architects and their works	Human Values, Gender
	BARC 103	Architectural Building Construction-1	Elements of buildings -Substructure/ Superstructure Building construction drawing practices and conventions Contextual relevance- what are buildings made of Natural and artificial materials- where they are used The study shall strongly emphasize the 'Selection Criteria' comprising various aspects viz. Technology, Aesthetic, Socio-Cultural, Socio-Economic, Ecology (green materials), etc.	Environment and sustainability
	BARC 105	Humanities-1	World history systems of knowledge History of culture understanding human	Human Values, Environment and sustainability
	BARC 106	Environmental Studies-1	Natural Environment, Ecology and ecosystems, Bio diversity and co-existence Relationship and co-existence of Built & Natural Environments Building Types & Lifestyles in different geographic zones and climatic zones	Environment and Sustainability
	BARE 121	Elective-1	Art In Architecture (Indoor)	Human Values



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Sem - 2	BARC 201	Architectural Design Studio-2	Architecture as environment	Human Values, Gender, Environment and Sustainability
	BARC 205	Humanities-2	History of art culture & aesthetics Society, Context, Aesthetics, Architecture	Gender, Human Values
	BARC 206	Environmental Studies-2	Architectural development on natural resources Effects of architectural development on natural resources Concepts of sustainable development Renewable resources Water cycle and its management Conservation and generation of energy	Environment and Sustainability
	BARE 221	Elective-2	Art In Architecture (Outdoor)	Human Values
Sem - 3	BARC 301	Architectural Design-3	Understanding space requirements for various activities for small groups of people Understanding indoor and outdoor spaces created by built forms.	Human Values, Environment and sustainability
	BARC 305	Humanities-3	The study of the socio-cultural circumstances, the art and the architecture of various culture, religion, civilizations in the world. industrial revolution and modern Architecture.	Human Values
	BARC 306	Environmental Studies-3	To study and understand passive methods of environmental control	Environment and Sustainability
	BARC 309	Architectural Theories-1	short and long writings about architecture and communicate their comprehension in writing and discussions/presentation in class. It is suggested that texts from the following authors be used to build up a body of knowledge about architecture	Professional Ethics
Sem - 4	BARC 401	Architectural Design Studio-4	To develop research skills for survey research and case study. To understand functioning of community spaces in rural areas/semi urban areas Built and un built spaces for Cluster & Communities	Human Values, Environment and Sustainability
	BARC 405	Humanities-4	The study of the socio-cultural circumstances, the art and the architecture of various culture, religion, establishments in India.	Human Values
	BARC 408	Architectural Building Services-2	Students work out all the calculations involved, layouts and drawings of sanitation, Storm water drainage and Rainwater harvesting	Environment and Sustainability



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Sem - 5	BARC 501	Architectural Design Studio-5	To design the buildings responding to the climate incorporating spaces for required infrastructure and services developing architecture for urban commercial, recreation, entertainment activities for large group of people with respect to appropriate architectural forms, their grouping and composition	Human Values, Environment and Sustainability
	BARC 502	Allied Design Studio-5 (Landscape Architecture & Design)	Landscape Design plays an important role in appreciating the built form with its foreground and background, Geology, geography, hydrology, planting design, socio-cultural landscapes, lighting in landscape design.	Human Values, Environment and Sustainability
	BARC 509	Architectural Theory-3	Research and criticism- Students to develop personal skills of research presentation and critical evaluation (using previously gained knowledge of referencing and citation). Students should be encouraged also to write pieces that are argumentative, and disputation to be able to convey with clarity and effectiveness alternative and individualistic thinking about architecture.	Professional Ethics
Sem - 6	BARC 601	Architectural Design Studio-6	To research and develop architecture for the institution building typology for large group of people with respect to appropriate architectural forms, their grouping and composition	Human Values, Gender, Environment and Sustainability
	BARC 602	Allied Design Studio-6 (Landscape Architecture & Design)	To design the buildings responding to the climate incorporating spaces for required infrastructure and services developing architecture for urban commercial, recreation, entertainment activities for large group of people with respect to appropriate architectural forms, their grouping and composition	Human Values, Gender, Environment and Sustainability
Sem - 7	BARC 701	Architectural Design Studio-7	Understanding typologies of housing in Urban Areas. Understanding user aspirations and user affordability	Human Values, Gender, Environment and Sustainability
	BARC 702	Allied Design Studio-7	Theories and concepts of Town Planning	Professional Ethics, Human Values, Environment and Sustainability



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	BARC 707	Architectural Representation & Detailing-7	understand and illustrate building bylaws and approval drawings to perform all the related calculations produce desired approval drawings and generate study reports related to DCR	Professional Ethics
	BARC 710	Professional Practice-1	To understand role of an architect in the profession, office set up and administration, procedure for tendering contracting, etc. Students to interact with the architects in the field and explain responsibilities and ethics of an architect as a part of the society	Professional Ethics
Sem - 8	BART 811	Professional Training	During this term the students have to undergo training out-side the institute, in such offices / organizations. Here Student shall be able to improve and consolidate his/her Architectural Knowledge. Student shall be able to work in accordance with the discipline of the organization, and will have to make progress	Professional Ethics
Sem - 9	BARC 901	Architectural Design Studio-8	Application of technical knowledge to design detailing Understanding impact of socio economic factors on user requirements Study of climatic conditions, Site analysis, site planning Understanding traffic patterns and transportation.	Human Values, Gender, Environment and Sustainability
	BARC 902	Allied Design Studio-8	Theories and concepts of Urban Design	Professional Ethics, Human Values, Gender, Environment and Sustainability
	BARC 906	Environmental Studies-4	The student must be able to understand sustainable building design processes through the study of NBC, ECBC, water efficiency, material efficiency, solid waste management practices, etc. to explore and research about sustainable design practices	Environment and Sustainability
	BARC 910	Professional Practice 2	Students shall be able to understand and explain topics such as Land Acquisition, valuation, property rights, easements rights, structural repairs, rent control act, etc.	Professional Ethics



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	BARD 911	Design Dissertation-1	The student shall be able to choose a topic for Design Dissertation and conduct research under the guidance of internal teachers To understand develop a thesis on the selected topic through of Knowledge base, Data collection, societal, economic and environmental concerns	Professional Ethics, Human values, Gender, Environment and Sustainability.
Sem - 10	BARC 1006	Environmental Studies-5	To be able to understand concepts of post occupancy evaluation and urban sustainability and impact of built environment on the surrounding. To evaluate and apply sustainable building strategies over design in their Design Dissertation	Environment and Sustainability
	BARC 1009	Advanced Theories-4	Understanding the effects of contemporary thought in society and culture today, and its impact on architectural design. Understanding theory as an academic discipline. Understanding ideas from outside architecture that have informed current architectural discourse- from philosophy, sociology, linguistics, psychology, feminism, post-colonial studies, information technology, art, cultural and critical theory, etc.	Human Values, Gender
	BARC 1010	Professional Practice-3	Students shall understand and explain Professional and legal responsibilities of Architects	Professional Ethics
35	BARD 1011	Design Dissertation-2	Student shall understand and use knowledge imparted throughout with better understanding of requirement of profession, society and surroundings from the core subjects	Professional Ethics, Human values, Gender, Environment and Sustainability.

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Submissions Samples



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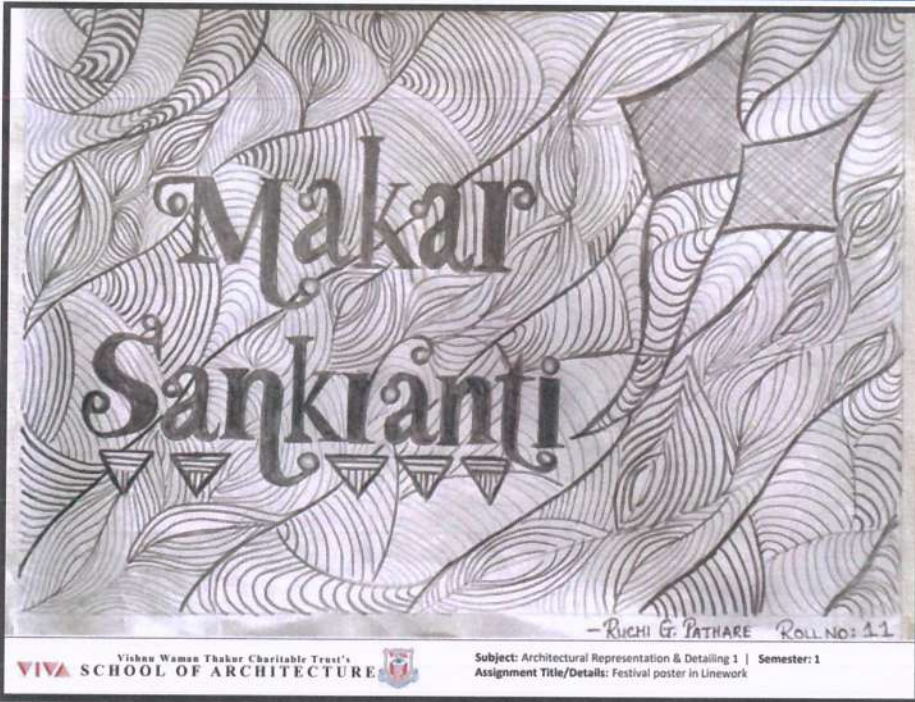
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Academic Year: 2020-2021 Year: First Yr. B.Arch. (Sem-1 & 2)

Name of Course: BARC 105 & 205 Humanities

PEDAGOGY

The theory based subject was started with an interesting activity of Creating Abstract Painting based on Architecture and Culture. This gave a strong base for students to interact and present their work explained about Architecture and Culture.

Lecture series conducted by faculties included the start of Prehistoric, Historic and the evolution of Humans and technology. Students were further introduced to the World history systems of knowledge, History of culture understanding human cultural development, products and sociology Chronology India and the world.

The study were made to analyze different monuments by sketching them and thereby exploring the evolution of Architecture.

INTENT -

The intent of the assignment was to understand the inter-relation between Architecture and Culture through the abstract painting in any color medium.

OUTCOME-

Students explored various abstract ideas about the culture through food, people, festivals, rituals and depicting architecture that has influenced the same. Few examples had glimpse of different countries talking about their civilizations and culture.

SEMESTER 1,2

ABSTRACT PAINTING 1

The abstract captures the essence of Maharashtra culture and its heritage throughout the years.

The fort symbolizes strength, victory over defeat and displays the valour of Chhatrapati Shivaji Maharaj.



ABSTRACT PAINTING 2



The abstract depicts the interrelationship and the importance of culture in architecture.

The staircase in the centre illustrates the growth and development of us humans and depicts that we shouldn't forget our lineage while modernizing.

ABSTRACT PAINTING 3

The orange colour represents the Hindu culture, blue represents lord shiva furthermore the brown colour formed by the merging of orange and blue represents the infinite space and universe.

The 12 dots represents as the 12 jyotirlingas in India. Coming to the centre is the tripund triak with a Shivalinga which also represented as an arched gateway towards the lord.



SYMMETRY
"The most common thing"
or
"Old school, easy to understand"



Colosseum, Rome



A church in Goa

A Heritage Temple in Tamil Nadu



Colosseum, Rome
Petronas Twin Tower, Malaysia

HUMANITIES

Academic Year: 2020-2021 Year: First Yr. B.Arch. (Sem-1 & 2)

Name of Course: BARC 121 & 221 Elective

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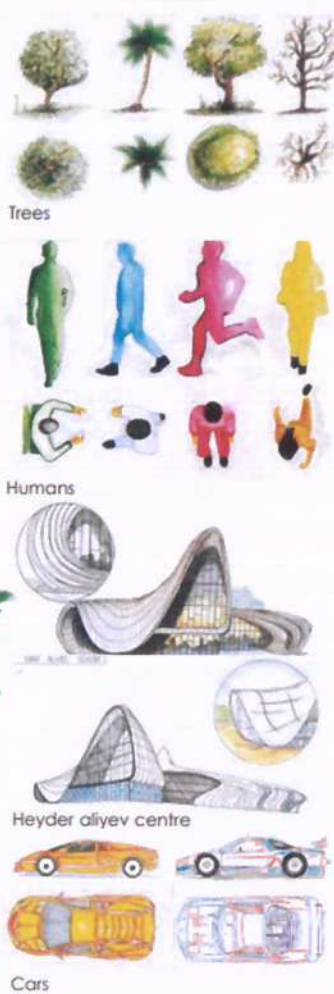
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HAND RENDERING



SILHOUETTES



PEDAGOGY

The purpose of the course is to teach the learner different representation and drawing skills in architecture. The course started with introduction to the drafting table, drafting tools and various sizes of papers that a learner uses across academic years.

Hand Rendering:

The focus was to develop hand drafting and sketching skill. Various line work exercises were given including Free hand sketching objects, different views and orthographic projections. Different medium of rendering techniques were also taught to the students. For understanding the basics of designing and model making were introduced to understand the Principles and Elements of Design also various colour combination and colour theory for which their creative aspect was enhanced .

A line dot curve model formulated from 2D doodles, which were attempted using several patterns established by positioning lines, dots and curves. The model was created considering the play of shades and shadows, distinct levels and cut outs were intertwined to enhance the same. The subject concluded with,

3D sculpture

1. Architectural College Campus
2. Garden Park

SEMESTER 1,2



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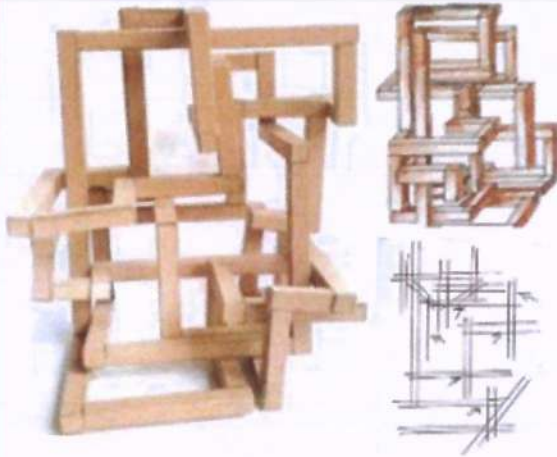


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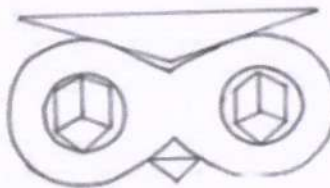
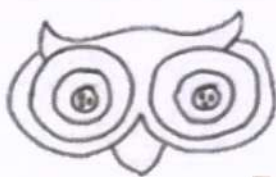
SCULPTURE



CREATIVE COLOR WHEEL



This is an geometric sculpture, in this sculpture there is "the curiosity feeling because the sculpture has no start or end the line which are passing each other or the joints it creates unity.



3D MODEL



ELECTIVES



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Academic Year: 2018-2019 Year: First Yr. B.Arch. (Sem-2)

Name of Course: BARC 106 Environmental Studies - 2

Title of Assignment: Environmental Issues through Newspaper Cuttings



Learning through analytical skills: Newspapers by First Year Students highlighting Environmental Issues

(Academic Year 2018-19)



Academic Year: 2020-21 Year: Second Yr. B.Arch. (Sem-3)

Name of Course: BARC 305 Humanities - 3

Title of Assignment: Historical Timeline



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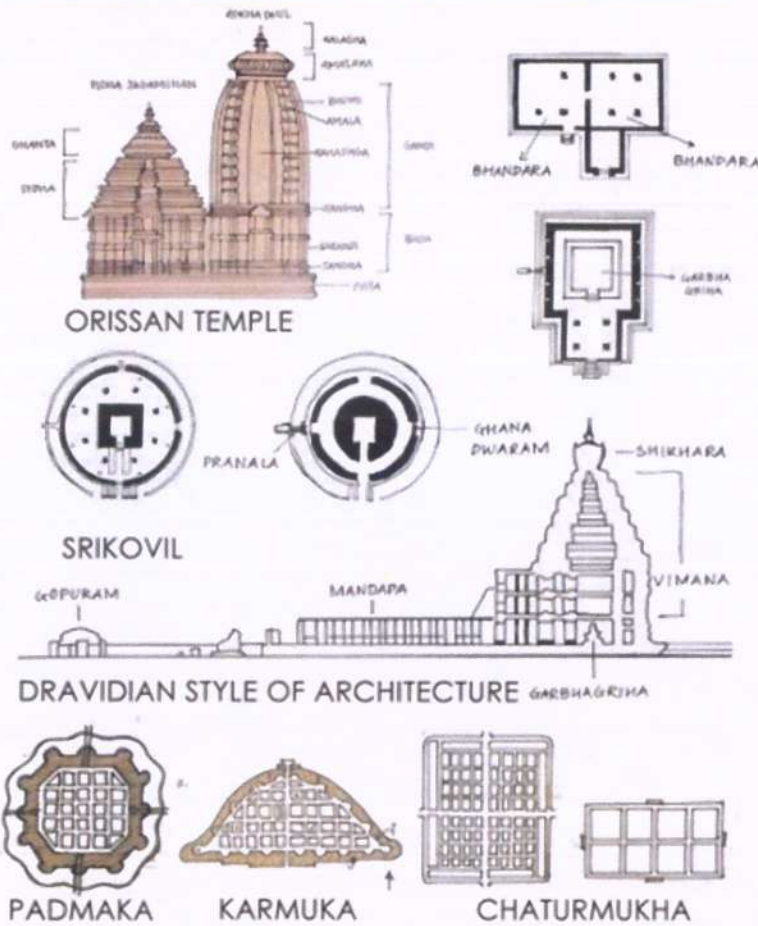
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PEDAGOGY

SEMESTER 3

The theory based subject for sem III included the background study of the western architecture. The subject had also included about the detailed description of the western architectural styles that evolved during the course of time. The semester covered the oldest architectural styles in western countries and introduction to Vedic town planning of India, it's planning techniques, its construction techniques, etc.



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VEDIC PERIOD 	 27BC Birth of Jesus Christ	 29AD Birth of Buddha	 29AD Death of Christ	 33AD Death of Jesus Christ	 35AD Death of Buddha	 43AD Death of Buddha
DANDAKA 	 048C Birth of Buddha	 29AD Death of Buddha	 29AD Death of Buddha	 33AD Death of Buddha	 40AD Death of Buddha	 43AD Death of Buddha
SARVATHOBHADRA 	 56AD Death of Buddha	 64AD Death of Buddha	 66AD Death of Buddha	 70AD Death of Buddha	 285AD Death of Buddha	 313AD Death of Buddha
SWASTIKA 	 64AD Death of Buddha	 64AD Death of Buddha	 64AD Death of Buddha	 120AD Death of Buddha	 312AD Death of Buddha	 312AD Death of Buddha
PRASTARA 	 324AD Death of Buddha	 410AD Death of Buddha	 1506AD Death of Buddha	 1675AD Death of Buddha	 1928AD Death of Buddha	 1971AD Death of Buddha
HUMANITIES	 326AD Death of Buddha	 800AD Death of Buddha	 1923AD Death of Buddha	 1936AD Death of Buddha	 1936AD Death of Buddha	 1936AD Death of Buddha



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Academic Year: 2020-21 Year: Second Yr. B.Arch. (Sem-3)

Name of Course: BARC 301 Architectural Design Studio - 3

Title of Assignment: Luxury residence at Palghar

PEDAGOGY

- Design need to take into account the residential activities suitable to varied age groups as well as cultural context in which they live.
- Design must create environments that support and ease the transition from outdoors to indoors and vice versa.
- Design must provide comfort and security, space, light, color, texture and much more enhancing the family culture and well-being.

The design topic for Semester-3 was Luxury residence, at Palghar.

SITE DETAILS

Site is situated in Nallasopara, Umrale. Site has a reach vegetation and is secluded from the main city area having a lake adjacent to the site. site is approximately 2450 Sq M.



SITE ANALYSIS



CONCEPT AND FORM DEVELOPMENT

SEMESTER 3

WALKING THROUGH WOODS

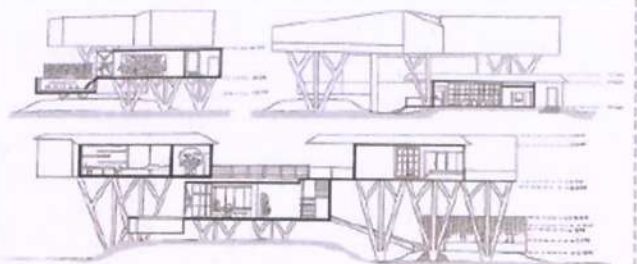
Making a house that can be sold home using site's strengths. The home was planned with levels allowing the views to be panoramic with minimal structural intrusions lifting the structure with help of stilts made of timber and steel. Ramp joining different levels and with the presence of woodlands around giving the ambience of walking through woods.



SITE DEVELOPMENT



SECTIONAL ELEVATION



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CONCEPT AND FORM DEVELOPMENT, INTERIOR AND LANDSCAPE VIEWS



KOMOREBI

"Sunlight shining through the leaves of the trees".

The feeling and atmosphere when light shines through the leaves of trees and experience lived in house on daily basis is pleasing and the sunlight entering the structure will create the feeling of liveliness within the structure by the movement of light and shadow throughout the day.



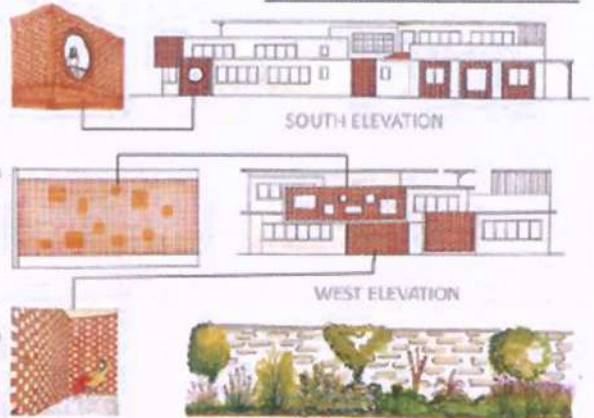
PLAN



ARCHITECTURAL DESIGN



ELEVATIONAL FEATURES



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Academic Year: 2020-2021 Year: Third Yr. B.Arch. (Sem 5)

Name of Course: BARC 505 Humanities - 5

Title of Assignment: Pompidou Structure and Works of Architect

ARCHITECTURAL DESIGN

PROJECT NAME: BUDGET HOTEL

Site Location - NH48, Palghar Virar

Site Area - 4745 SQ.M.

No. Of Levels - G + 3 floors



VIEW 1



VIEW 2



VIEW 3

ISOMETRIC VIEW



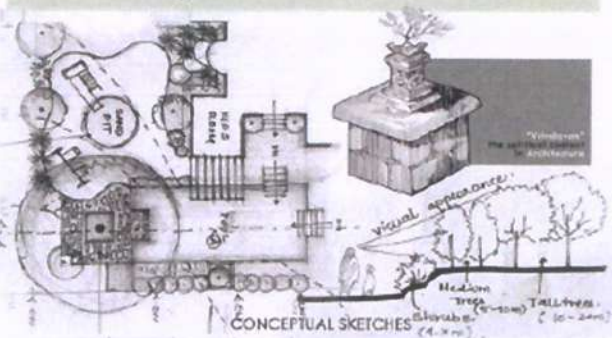
SECTIONAL ELEVATION



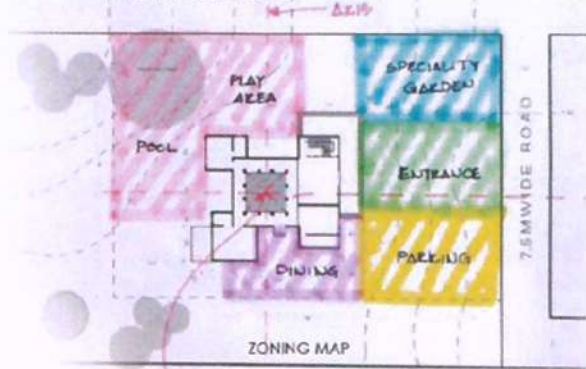
PLAN

PEDAGOGY

The process began with Introduction to Landscape Design & History of Landscape Design, introduction to various natural landscape forms in nature and definitions of key Vocabulary in landscape spaces. Understanding of contour and hydrology and modifications along with various materials and lighting techniques used in the design. The course concluded with a landscape design proposal with proper implementation and representation of the topics covered during the semester.



CONCEPTUAL SKETCHES



ZONING MAP

SEMESTER 5



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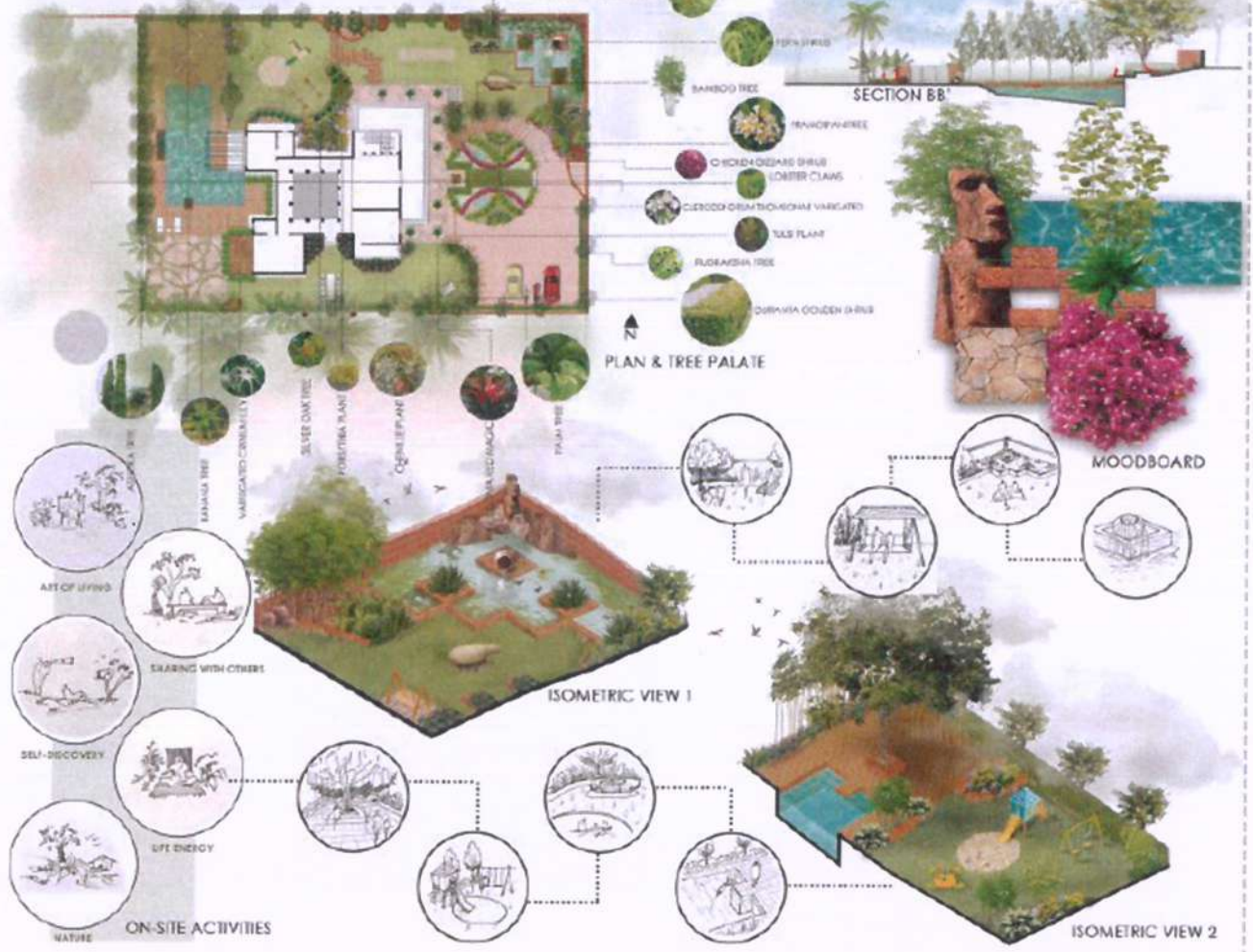
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ALLIED DESIGN (LANDSCAPE)

Site Location: BORIM, GOA, INDIA

Site Address: Laulotim, near Zuari river, Borim, Goa - 403106

Aim: To design a landscape for the existing structure considered as the holiday home



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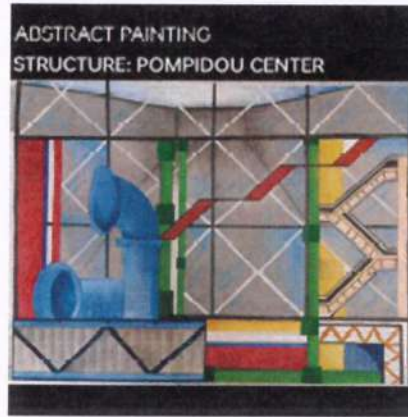
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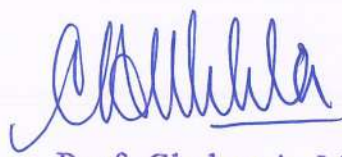
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Academic Year: 2021-2022 Year: Third Yr. B.Arch. (Sem 5)

Name of Course: BARC 505 Humanities - 5

Title of Assignment: Pompidou Structure and Works of Architect



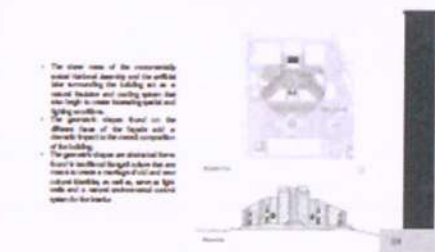
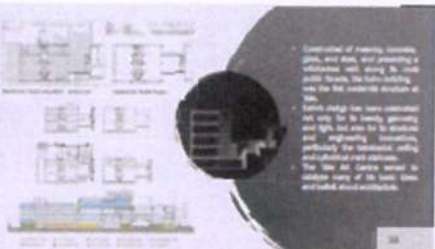
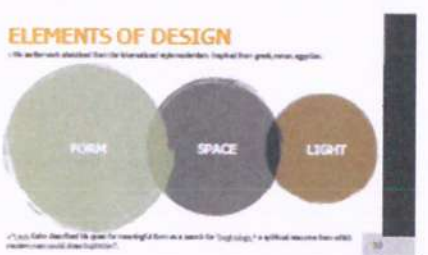
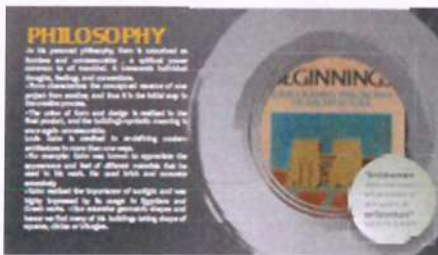
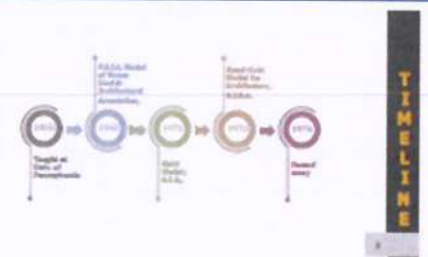

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Academic Year: 2021-2022 Year: Third Yr. B. Arch. (Sem 5)

Name of Course: BARC 502 Allied Design Studio (Landscape Architecture and Design)

Title of Assignment: Different Forms of Trees and Landscape design

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ALLIED DESIGN- LANDSCAPE (ENVIRONMENT CATEGORY)

10/17/2021 10:10:22 AM



Prathmesh Sunil Bhosale
Roll No. 03
Semester V - 3rd Year
Viva School of Architecture
Academic Year: 2020-2021

Form of Tree	Sketch	Examples	Common Names	Scientific Name
ROUND			Tree of India Pune (Pune)	Large tree Magnolia
SPREADING			Tree Tree	Tree Tree
PIRAMIDAL			Blue pine Pine tree	Tree Tree

Form of Tree	Sketch	Examples	Common Names	Scientific Name
OVAL			Tree Tree	Tree Tree
CONICAL			Tree Tree	Tree Tree
WIDE			Tree Tree	Tree Tree

Form of Tree	Sketch	Examples	Common Names	Scientific Name
COLUMNAR			Tree Tree	Tree Tree
OPEN			Tree Tree	Tree Tree
WINDING			Tree Tree	Tree Tree

Form of Tree	Sketch	Examples	Common Names	Scientific Name
BEDDLE			Tree Tree	Tree Tree



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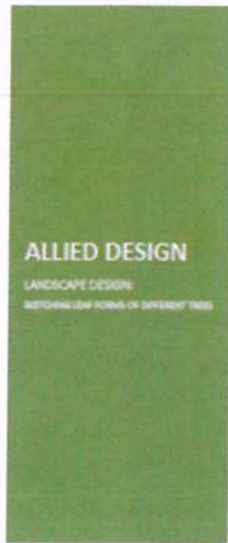
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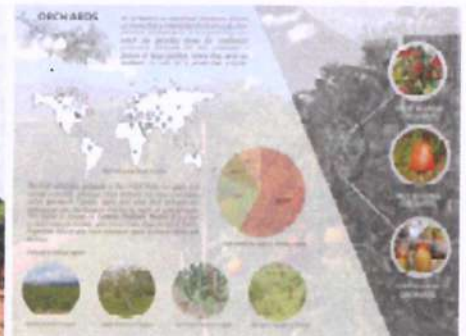


Prathmesh Sunil Bhosale
Roll No-02
Semester V - 3rd Year
Viva School of Architecture
Academic Year: 2020-2021

BMC 002		Semester V: Form of leaf		Allied Design	
Date: 5		Prathmesh Sunil Bhosale		Roll no. 02	
Name of leaf	Sketch	Image of leaf	Image of tree	Type of leaf	
MAHOG				Single alternate branching form	
FUNDA COCONUT				Oblong	
PEPAL				Oval	
NEPAL ALINDO				Oval	
NEPAL				Oval	

BMC 002		Semester V: Form of leaf		Allied Design	
Date: 5		Prathmesh Sunil Bhosale		Roll no. 02	
Name of leaf	Sketch	Image of leaf	Image of tree	Type of leaf	
ARJUNA				Pinnate leaf venation	
PAUN				Pinnate leaf	
PARVA				Pinnate compound	
COCONUT				Cluster of leaf	

BMC 002		Semester V: Form of leaf		Allied Design	
Date: 5		Prathmesh Sunil Bhosale		Roll no. 02	
Name of leaf	Sketch	Image of leaf	Image of tree	Type of leaf	
MAHOG				Oval	



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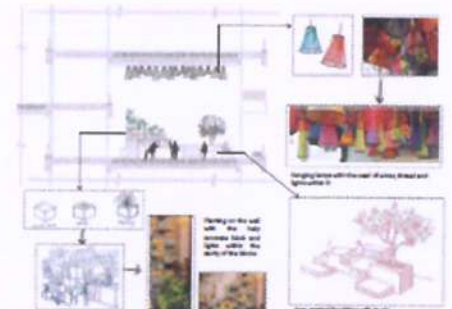
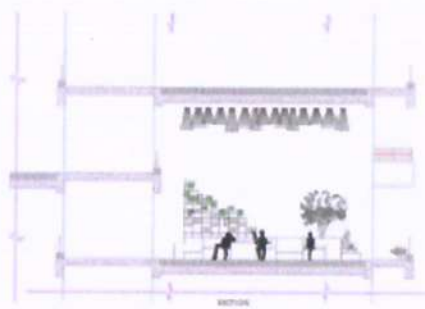
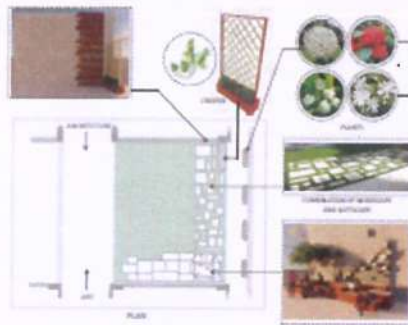
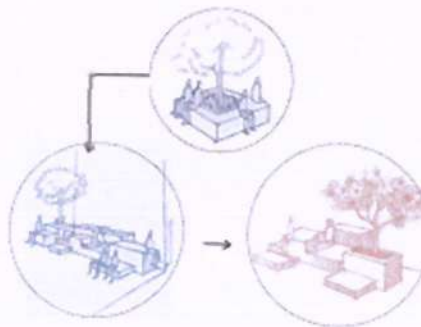
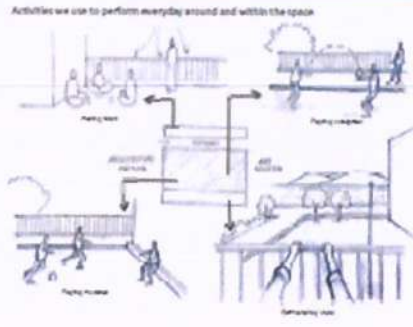
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Many plant generally grows well in direct sunlight in garden, in water stream, or low light conditions. A partially sunny and partially shady area is also preferred for good growth of many plants.

Other grows in the garden are ornamentals shrub or small tree, Murraya (orange bright sunlight and moderate humidity for maximum growth and results of best 4 to 7 hours of direct sun every day, the essential sun is required in the peak summer along Plumeria needs are little shelter compared to the height of the plant. The next option is small and fibrous



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Academic Year: 2020-2021 Year: Third Yr. B. Arch. (Sem 5)

Name of Course: BARC 503 Architectural building Construction - 5

Title of Assignment: Canopy Design

CANOPY DESIGN



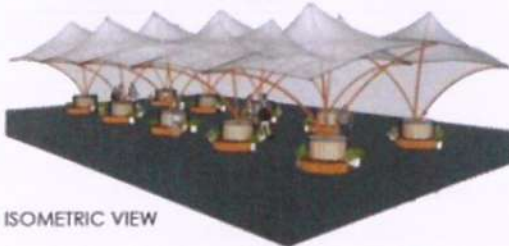
CANOPY DESIGN



PROCESS WITH VIEWS



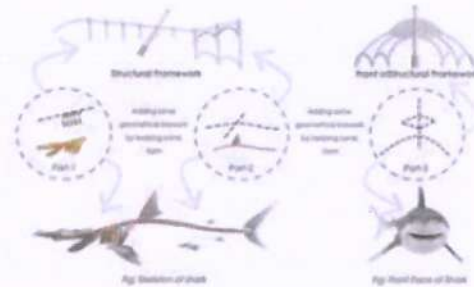
CONCEPTUAL DEVELOPMENT



ISOMETRIC VIEW



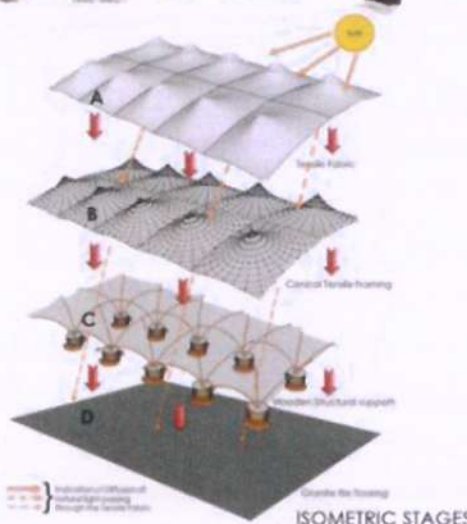
ELEMENTS OF THE CANOPY



CONCEPTUAL DEVELOPMENT



CANOPY DESIGN



ISOMETRIC STAGES

ARCHITECTURAL BUILDING CONSTRUCTION

Academic Year: 2020-2021 Year: Third Yr. B.Arch. (Sem-5)

Name of Course: BARE 509 Architectural Theory - 3

Title of Assignment: Research and Criticism



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Contact Nos. – 7744871000 & 7447491000 (WhatsApp Enabled) Fax No.- 0250 - 2515275



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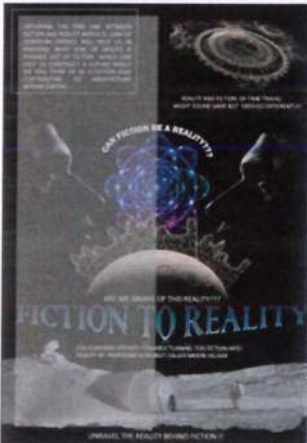
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Architecture for Women

Architecture for Women expounds how architecture can flourish with feminist theory for empowering women. Feminist theory is the extension of feminism into theoretical, fictional, or philosophical discourse. Its analysis of architecture shouldn't only have an interest in "women's place" in society, but in gender relations, also the importance and sort of individual experience. Feminism weds theory to practice and encourages us to rethink and undermines winner/loser dynamics of how architecture gains from addressing "Women's" concerns.



Fiction to Reality

Existing laws of quantum physics states how fiction can be a reality under certain alteration according to law of physics . Fantasy of colonization on moon can be a reality depending on ESA's upcoming project of creating a moon village . Awareness among people about these facts can help them look into realities that are possible behind these fictions which is necessary to motivate young minds to create a future which is yet "a fiction" for us.

ARCHITECTURAL THEORY

PEDAGOGY

RESEARCH AND CRITICISM

Focusing on the fundamentals of theoretical architectural research, its objectives and its essential methodologies research article has been written by the students. A small projects of research and reflective writing have been undertaken by students to develop personal skills of research presentation and critical evaluation (using previously gained knowledge of referencing and citation).

Students have also been encouraged to write pieces that are argumentative, and disputational to be able to convey with clarity and effectiveness alternative and individualistic thinking about architecture.

Process/ evolution :

Firstly, the students were asked to choose a topic about the fundamental issue and on- going trend n the field of Architecture.

Then, on choosing the Topics they were asked for the detailed study and research on the topic they opted for the Architectural Theory course.

Co-ordinating with the guides and with their guidance and references the students improvised the study and wrote the article in their own vocabulary.

Students were asked to make posters highlighting and drawing an attention towards the issues, strengths, growth in the field of Architecture depicting the topics through various principles of design , Bauhaus patterns, and Architectural elements to portray the topic studied while in the course of Architectural Theory.

SEMESTER 5



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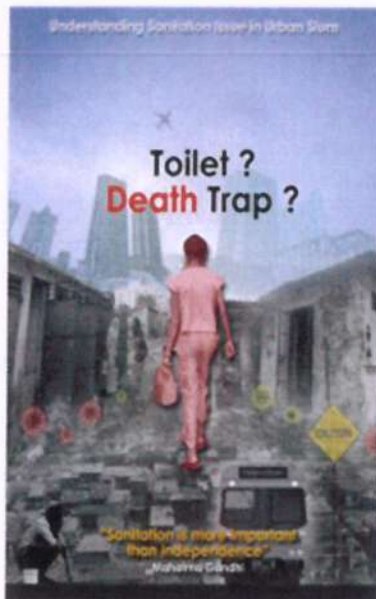
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Understanding sanitation issues in the slum



Architecture: Building a profession of stress?



Intelligent building



From Big Countries to your Country



Lightweight Architecture in advance structures



Vertical Farming



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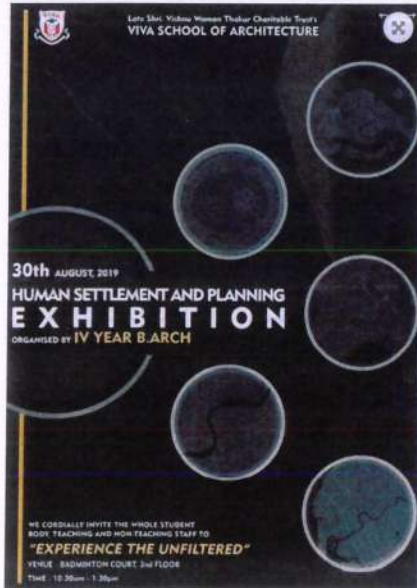
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Academic Year: 2019-2020 Year: Fourth Yr. B.Arch. (Sem - 7)

Name of Course: BARE 721 Elective - 7

Title of Assignment: Human Settlement and Planning Exhibition through models



Participatory Learning: Exhibition by the students on Human Settlement and Planning, Semester 7 A.Y. 2019-20



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Academic Year: 2022-23 Year: Fourth Yr. B.Arch. (Sem-7)

Name of Course: BARC 701 Architectural Design Studio - 7

Title of Assignment: Mass Housing (Design Project)

DESIGN BRIEF

Mass Housing at Juchandra

Regionalism is not simply the nostalgic privileging of the vernacular form, but a synthesis of the vernacular with modernism. It is a way of thinking about architecture which is culturally regenerative – not a style, but a search for a cultural continuity. It implies the embracing of modernism, whilst simultaneously maintaining links with traditional forms and practices

- Robert Powell, 1993

AN ARTIST'S PARADISE

Mass Housing has been conceived as either vertical extensions of an efficient floor plan or stand-alone pieces of urban sculpture. In both cases, the only relationship with the urban setting is a visual one, with the building usually dominating. It has led to the syndrome of tower blocks in 'historic' and 'picturesque' street scenes, immobile parks, models that are rarely transportable around the world. This has created an alarming homogeneity across global urban centres – a creation of a 'one size fits all' 'skyscraper' model. This is especially true of cities in developing nations, where the imported, neoclassical, postmodernist 'form' is the standard option. Also, housing has become synonymous with the 'gravel' burden on environment with excess use of energy and resources – in both embodied construction and operation. In short, these high-rise buildings are contributing to the degradation of both the local (cultural) and the global (climate change).

AIM:

To design well integrated and self-sustainable housing complex at Vasa – Virar (Juchandra), considering the Local Building Bylaws.

Floor Space Index (F.S.I.) or F.A.R. to be considered as per the Site.

- SITE AREA = 9,945.00 sq.m
- PERMISSIBLE F.A.R = 3.0

COMMERCIAL COMPONENT:

- 30% of PSI to be developed into Commercial Component
- Commercial Complex to be developed on site considering the potential of site and site context

RESIDENTIAL COMPONENT:

- Unit Type: Studio Apartment, 1BHK, 2 BHK
- Unit Area: as per Market Study and Analysis
- Lift for 6 to 8 persons (find out information about size of lift well and internal size, details of machine room, lift pit etc.)
- Staircase as per the By-law.
- Vehicular and Pedestrian accesses

COMMON AMENITIES:

Club house, Swimming Pool, Kids Play Area, Box Cricket Net, Other Recreational Activities as needed

SUSTAINABLE ASPECTS:

- Rainwater Harvesting
- Solar Energy
- Green and Eco-friendly Building Material
- Passive Strategies
- Solid Waste Management and other techniques of sustainable use and development

NOTES:

- Carpet Area mentioned can be 30% plus or minus.
- Carpet Area mentioned for privy is inclusive of area for all habitable rooms, toilets, passage, balconies, cantilever wardrobe, 50% area of open terrace attached to flat
- F.S.I. shall be calculated as per line diagram

02

MASS HOUSING AT JUCHANDRA

SITE ANALYSIS

The site for this project is in the neighbourhood of VVCM, the site is located in Rajgurunagar East. Due to the demographic shift there is shortage of dwellings and increased migration demands a need of planned and well-integrated MASS HOUSING. These sites become a key factor especially where land availability is a challenge. This site is in the pressure location. It comes for its proximity to its connectivity with the network of road and railways. It is also surrounded with amenities such as shops, schools, recreational areas, hospitals, etc.

CLIMATOLOGY

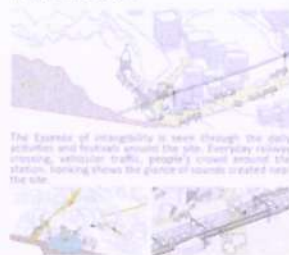


SITE ANALYSIS



The site receives wind from the western side and the site is oriented towards western direction for about 20 degrees.

INTANGIBLE SPACES



The essence of intangibility is seen through the daily activities and habits around the site. Everyday railway crossing, vehicular traffic, people's crowd around the station, honking shows the glance of sounds created near the site.

SWOT ANALYSIS

- S** Region is still under development, which creates an opportunity for wind flow, site view. The site has the scope of green spaces, schools, medical facilities and other amenities are present nearby the plot.
- W** Plot is situated near the railway station. It can create water obstruction for low ground of near since the railway track is not used as a regular train. The ongoing construction of bridge on the near main road is the major weakness for the site.
- O** Scarcity of amenity spaces with the site makes it an off-shooter around the structure. Good opportunity to set a landmark.
- T** Transportation changes caused by the recently starting the building. Changing the route of traffic/transportation towards water areas.

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02



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ABHIJEET A. CHAVAN

"As an architect, you design for the present, with an awareness of the past for a future which is essentially unknown."
- Norman Foster

PROJECT DETAILS
Site Location: Ashfunda, Nagpur, Maharashtra, India
Site Area: 32,284 Sq.m
No. of Units: G + 12 Floors
Project Typology: Mass Housing

DESIGN APPROACH
Planning of units in such a way that the each room will get a good view point and also, variety that will make place.
Facilitating interaction and green open spaces for the all age group residing there.
The site location has a surrounding community which is well known for their various kind of activities like swimming, sports, playing, games and others etc. One of their well known sites include the WARDI ART. The trademark of Wardi paintings is the use of geometric designs such as triangles, circles, squares, dots and lines.

FORM DEVELOPMENT
The concept is derived from these shapes of the WARDI ART. The aim of the building is to create an OPEN structure in the suburbs which will enhance the local art of the surrounding.

ZONING

CONCEPT DEVELOPMENT

FORM DEVELOPMENT
OPTIMUM MASS → DIVISION OF MASS SATO (ON 300 AREA/100) → PLANNING OF WINGS WITH RESPECT TO ECONOMY → FINAL FORM WITH COMMERCIAL SPACE

SITE PLAN

07

FLOOR PLANS
WING - A, C
WING - B, D

ELEVATIONS

UNIT PLANS
2BHK
3BHK

INTERIOR VIEWS

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08

MASS HOUSING AT JUCHANDRA

JERRIN ABRAHAM

"Decent, affordable housing should be a basic right for everybody in this country. Without stable shelter, everything falls apart."
- Matthew Desmond

PROJECT DETAILS
Site Location: Juchandra, Nagpur, Maharashtra, India
Site Area: 32,284 Sq.m
No. of Units: G + 14 Floors
Project Typology: Mass Housing

DESIGN APPROACH
As the project is Mass Housing and as per the housing need for the development of the area, the design was made as to provide the maximum number of residential units possible.
The form, color, and construction while planning were the main focus of the design. Design, materials, structure, framing and provision of recreational spaces for various nature conditions etc.
In terms of elevation, the approach was to keep the structure influenced by the surrounding buildings, with a simple yet a feasible facade.

CONNECTIVITY

SUN PATH

FORM DEVELOPMENT
The form for the project was developed keeping in mind the open garden area created around the open floor levels except for the sun path into the garden area, but also the outdoor seating space were kept the consideration when it came to sunlight and shading.

01

PRATHMESH S. BHOSALE

"Architecture should speak of its time and place, but yearn for timelessness"

PROJECT DETAILS
Site Location: Juchandra, Nagpur, Maharashtra, India
Site Area: 32,284 Sq.m
No. of Units: G+14+G+12 Floors
Project Typology: Mass Housing

DESIGN APPROACH
Talking about Mass housing, earlier most of the buildings were G + 5 or G + 4 stories. It was design like a cluster of four buildings in which the central space was mostly the open spaces used as a multipurpose space.
Today as the population is going on increasing, the need for mass housing has also been increased. We have started moving vertically to increase the building footprint. But at the same time, somewhere we have started losing the liveliness that we use to see within such spaces.

UNDERSTANDING

VARIOUS ACTIVITIES

FORM DEVELOPMENT

02



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Academic Year: 2019-20 Year: Fifth Yr. B.Arch. (Sem-9)

Name of Course: BARC 906 Environmental Studies - 4

Title of Assignment: Post Occupancy Evaluation

POST OCCUPANCY EVALUATION AT YASH VIDYANIKETAN SCHOOL, VIRAR (WEST)

INTRODUCTION -
A STUDY WAS CONDUCTED TO UNDERSTAND THE WORKING OF BUILDINGS USED AS SCHOOLS AND PLANNED IN A TROPICAL AND SUBTROPICAL CLIMATE. ACTIVITIES TAKING PLACE INSIDE FOR THE SCHOOL STUDY. A SCHOOL WAS SEEN AND THE ROOMS INSIDE WHICH IS LOCATED IN VIRAR EAST THE SCHOOL CAMPUS IS BEAUTIFUL ONE WITH A UNIQUE CONCEPT OF DAY SCHOOL. THE MAIN CONCEPTS OF DAY SCHOOL, SCHOOL, COLLEGE, UNIVERSITY.

THE PURPOSE OF THIS PROJECT IS PARTICULAR DETAIL WAS THE ARCHITECTURAL SPECIFIC ASPECTS OF BUILDING DESIGNING AND INSIDE COMFORTING ASPECTS. SPECIAL STRATEGIES FOR DESIGNING WITH EFFICIENCY IN ORDER TO CONSERVE AND MANAGE ENERGY ON THE SITE. VISUAL RECORDS WERE TAKEN AND DOCUMENTATION WAS DONE WHICH WERE FURTHER ANALYSED TO UNDERSTAND THE WORKING OF THE BUILDINGS USED. THESE RECORDS, OBSERVATIONS AND DOCUMENTATIONS WERE USED FOR THE EVALUATION.

BASE PLAN WITH ZONING

TABLE SHOWING HUMIDITY AND TEMPERATURE OF THE ROOMS

Floor	Room	Temp	Humidity
Ground	Entrance	30.1	29.0
	Open area	30.2	30.1
	Administrative	30.4	30.4
	Classroom	31.4	31.1
	Board	31.4	31.3
	Classroom of	31.4	31.3
Second	Classroom	30.4	30.4
	Library	30.7	30.2
	Staff room	31.1	31.1
	Open area	31.1	30.7
Third	Open area	31.4	31.4
	Classroom	31.7	30.7
	Open area	31.7	31.1
Fourth	Open area	31.4	31.4
	Classroom	31.4	31.4
	Open area	31.7	31.4
Terrace	Open area	31.7	31.4
	Open area	31.7	31.4
	Open area	31.7	31.4

WIND VELOCITY

SECTION THROUGH CLASSROOMS

SECTION THROUGH CORRIDOR

ANEMOMETER

SUBMITTED BY

- SAURASH CHERUJ
- VINIT DUGGAD
- DATISHAN DALA
- MOHIT KAWASR
- SAGAR KHOT
- KONAN KINI
- VEDANT MARGAN
- KUNAL KANE
- PRITHAN BATHOD
- SHRIS SANE
- PARTHI SHAH
- SHALMITI JABLE
- LEHMAN JOGASAR
- JANARAY VASITAE
- ANUSHREE VNGURLIKAR

SEM - X | FIFTH YEAR B.A.



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Academic Year: 2022-23 Year: Fifth Yr. B.Arch. (Sem-10)

Name of Course: BARC 1009 Advance Theories - 4

Title of Assignment: Conceptual Development and Site Analysis

BARC 1009- Architectural Theory 4

MULTI-UTILITY CENTER

The name itself explains that it is a mixed use structure. This structure is designed to cater commercial and leisure activities. Where Mumbai has a rich historical background; focusing on BKC being a prominent upscale commercial hub planned to decongest the CBD in South Mumbai. As we can see the satellite image of year 2000 and the current year 2023, BKC has experienced a huge transformation where once it was a complete marshy land; now is known as BKC. Analysing the activity mapping of site; it is surrounded by back offices, institutes, headquarters but lacks in public spaces.

The site is well connected and has an access through 18 m wide and 30 m wide secondary road. The site location is a boon to the structure as it would stand out being an iconic one, creating a landmark by itself. Accordingly the site approach is determined; segregating the public and private zones, identifying the walkways and drive through, active frontages and ground coverage. In form development; elevational grid is identified, creating punctures for breathing spaces and bridging the gap between the spaces. The study model represents the massing of structure and the right bottom corner image is the conceptual sketch of the form.

This map represents the future impact of the structure and the change in surrounding land uses. The photo imaging shows the transition of BKC from 2000 till present day. According to daylighting and shadow analysis of winter and summer solstices the East to Southwest side experiences maximum daylighting which helps in the determining of techniques to be used. Such structure have a smart functioning efficiency; be it in terms of lighting sensors, PV panels, water recycling, e-bike provision, etc., Which contributes to the sustainability of structure.

SITE LOCATION: BKC G- Block, Mumbai

2000



BKC's rise to prosperity is commendable, as it built on barren land. A huge transformation occurred in this area that was nothing but marshy land, now known as the Banker's Kiosk complex.

2023



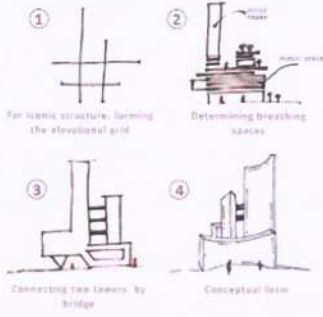
As the site location is BKC, Mumbai, the background study gives us an idea of how the land transformation took place and how the bank's back offices, Trident, 5-star hotel, etc their spaces built over time are acting as landmark to the site.

ACTIVITY MAPPING



Legends
- Highways - Primary Road - Secondary Road
- Open Space - Waterbodies - Landmark

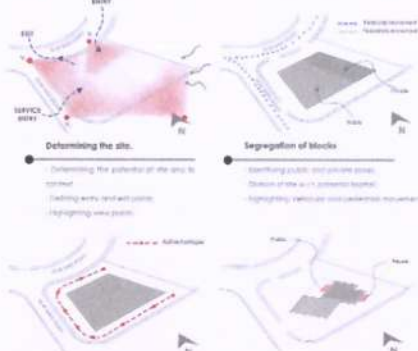
FORM DEVELOPMENT



Connecting two towers by bridge

Conceptual form

SITE APPROACH



Determining the site.

- Determining the potential of the site to be used
- Studying area and all points
- Highlighting site points

Segregation of blocks

- Identifying public and private zones
- Division of the site's potential layout
- Highlighting particular and landmark movement

Considering the mass and determining the potential edge on site.

- Identifying public and private zones
- Division of the site's potential layout
- Highlighting particular and landmark movement

Maintaining ground coverage

- Identifying public and private zones
- Division of the site's potential layout
- Highlighting particular and landmark movement

STUDY MODEL



MULTI-UTILITY CENTER

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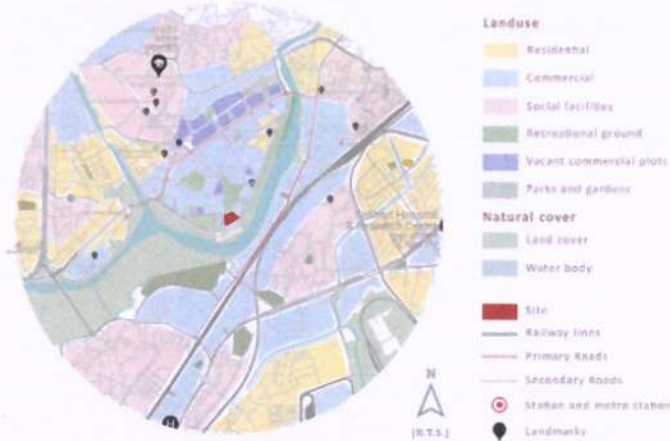
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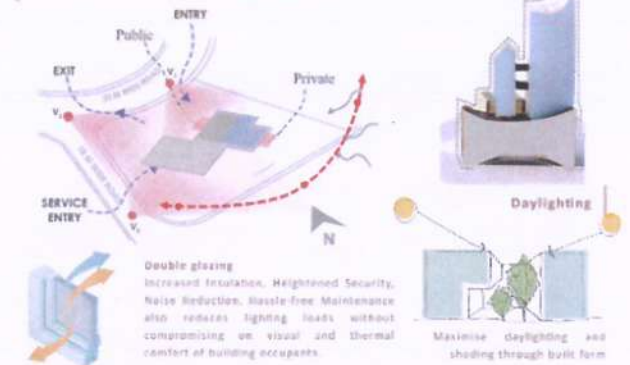
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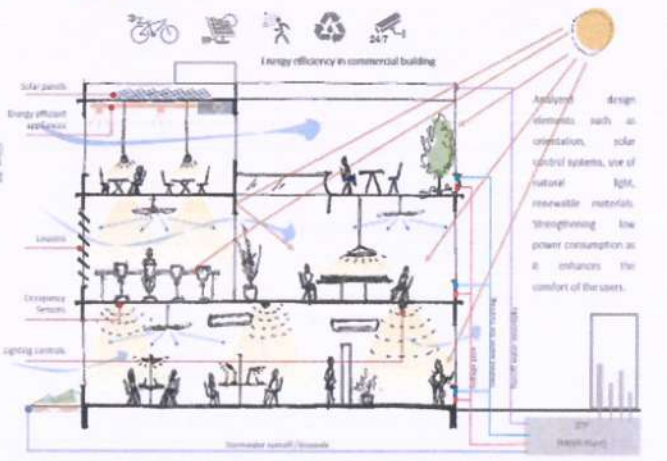
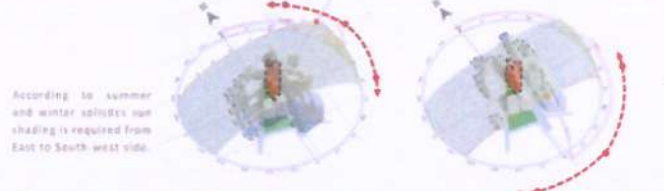
SITE ANALYSIS



Existing site condition with viewing points



Daylighting and shadow analysis



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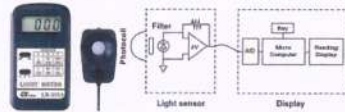
Name of Course: BARC 1009 Advance Theories - 4

Title of Assignment: Conceptual Development and Site Analysis

POST OCCUPANCY EVALUATION – LUX LEVELS

INTRODUCTION

LUX METER : Lux meters are used for measuring brightness in lux. In order to collect some lux meters are equipped with an internal memory or data logger to record and save measurements. The measurement of light intensity with a lux meter is becoming increasingly important in the workplace due to safety concerns. Lighting professionals use a light meter (also called an illuminance meter or lux meter) to measure the amount of light in a space on a particular work surface. The light meter has a sensor that measures the light falling on it and provides the user with a measurable illuminance reading.



DIGITAL LUX METER

DIGITAL LUX METER DIAGRAM

NEED TO MEASURE THE LIGHT WITH LUX METER : Lighting professionals use a light meter (also called an illuminance meter or lux meter) to measure the amount of light in a space on a particular work surface. The light meter has a sensor that measures the light falling on it and provides the user with a measurable illuminance reading.



CALCULATING LIGHT IN LUX METER

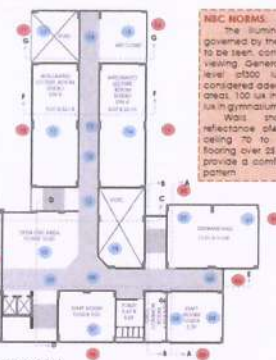
CALCULATING LIGHT IN LUX METER

HOW TO MEASURE LIGHT WITH LUX METER:

- 1. Measure Ambient light in the Room**
To begin, turn off any lighting in the room you're about to measure. Turn on the light meter to establish what is known as the baseline measurement – the ambient light. This means you can see how much the existing lighting adds to the room once the lights are turned on.
- 2. Turn on the lights. Take Your Measurement**
From a central area of the space, ensure your light meter is set up to record your new reading. Remember not to rush – allow the lighting a few moments to reach full brightness (especially if you're measuring light from CFLs).
- 3. Note Your Differential Reading**
Simply subtract the ambient light level from the illuminated level – known as the differential (or delta) measurement. This is the amount of light the existing luminaires produce. With this light measurement unit, you can assess how it compares to the optimal lighting levels required.
- 4. Check Other Areas of a Room**
For open office lighting or a corridor, the reading you get from your light meter should, in theory, be consistent. However, it might be worth checking any potential "blind" spots just to be sure you have consistency.



KEY PLAN :



IBC NORMS
The illuminance required is governed by the size of the object to be seen, contrast and period of viewing. Generally an illuminance level of 300 lux (horizontal) is considered adequate for teaching areas, 100 lux in corridors and 200 lux in gymnasiums.
Walls should have a reflectance of 80 to 90 percent ceiling 70 to 75 percent and flooring over 35 percent so as to provide a comfortable luminance pattern.

METHODOLOGY:

1. A Lux Meter was used to understand the change in the daylighting.
2. This instrument measured the daylighting readings by using a protocol to capture light. The meter then converts this light to an electrical current, and measuring this current allows the device to calculate the lux value of the light it captured.
3. The first reading was measured at 10:15 - 11:15 am.
4. The second reading was measured at 1:00 - 2:00 pm.
5. The third reading was measured at 3:30 - 4:10 pm. The difference in daylighting at different times was studied and analyzed.

INFERENCE

There was a change in daylighting in the two readings that were calculated. The light changes depending on various factors such as:
• The rate at which light passes through the glass and is transferred to an object.
• It has been found that daylight factor is much higher than the standard values in east and west-oriented building components whereas the building components oriented in north and south, the daylight factor is little higher than standard values.
• According to our study, the proper illumination depends on the location and design of windows, light sources, the type of light fixtures, the selection of the light source, the intensity and distribution of the source and fixture combination, and the room environment.

SECTION EE:



PART PLAN :



SECTION EE :
• It covers the major part across the plane as there is more deflection seen in the readings of Luminance (lux) level gradually over the floor.
• Where the lux level is highest at the point 2 on second, third and fourth floor whereas at the lowest lux level is found at point 4 on the lower ground floor.

READING TABLES:

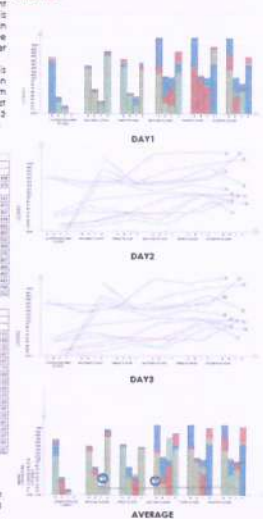
DATE	TIME	LOCATION	READING (LUX)
02.12.2022	10:15 - 11:15 AM	POINT 1	150
		POINT 2	250
		POINT 3	300
		POINT 4	100
	1:00 - 2:00 PM	POINT 1	180
		POINT 2	280
		POINT 3	350
		POINT 4	120
	3:30 - 4:10 PM	POINT 1	200
		POINT 2	300
		POINT 3	400
		POINT 4	150

ANALYSIS:

- Above graphs indicate that the Luminance levels (lux) on the upper floors are high from 10 am to 1 pm. The third floor in the afternoon had a higher intensity of lux levels than others.
- The fourth Graph represents the average value of the reading of Lux level and compares it with the amount of Ambient temperature in the respective timings.
- The highest ambient temp is 31°C and the lowest is 28°C.



GRAPHS :



ROLL NO. : 02.12.25.30.32.42.48.52.53.55.56

BARC 1006 ENVIRONMENTAL STUDIES - 5 GROUP - NO 4



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SECTIONS WITH ANALYSIS

SECTION AA:

ANALYSIS SECTION AA:

- In the adjacent graph of section BB the illuminance levels (lux) is MODERATE throughout the day.
- The highest ambient temperature recorded is 32°C and the lowest temperature is 20°C.

SECTION DD:

ANALYSIS SECTION DD:

- Adjacent graph indicates that the illuminance levels (lux) is HIGHER on the outermost points of the building due to direct sunlight.
- Points 16 and 17 have lower intensity of lux levels as compared to others.

SECTION BB:

ANALYSIS SECTION BB:

- In the adjacent graph of section BB the illuminance levels (lux) is MODERATE throughout the day.
- The highest ambient temperature recorded is 32°C and the lowest temperature is 20°C.

SECTION FF:

ANALYSIS SECTION FF:

- Above graph indicates that the illuminance levels (lux) is MODERATE on the respective points due to the orientation of the building.
- The Corridor has a lower intensity of lux levels as compared to other points. At evening the lowest lux level is recorded at lower ground floor and highest of third floor.
- The highest ambient temperature recorded is 32 degree Celsius and lowest temperature is 23 degree Celsius.

SECTION CC:

ANALYSIS SECTION CC:

- Above graph indicates that the illuminance levels (lux) is MODERATE on the respective points due to the orientation of the building, in afternoon and evening first floor and ground floor has lower intensity of lux levels as compared to other.
- At 3 pm the lowest lux level is recorded at lower ground floor and highest of third floor.
- The highest ambient temperature recorded is 31°C and the lowest temperature is 27°C.

COMPARATIVE ANALYSIS BETWEEN EAST-WEST SECTION ON DIFFERENT FLOORS:

INFERENCE: SECTION AA - GROUND FLOOR:
As sun rises from east and sets in west, point 2 (inside) 489 lux located on the western side of the premises receives direct sunlight at 11 a.m. And point 5 (inside) 619 lux and 4 (inside) 599 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 60 lux.

INFERENCE: SECTION AA - 5th FLOOR:
Point 2 (inside) 432.33 lux located on the eastern side of the premises receives direct sunlight at 11 a.m. And point 5 (inside) 573 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 143 lux.

INFERENCE: SECTION BB - GROUND FLOOR:
As sun rises from east and sets in west, point 14 (outside) 13 lux located on the eastern side of the premises receives direct sunlight at 11 a.m. And point 7 (inside) 29.3 lux and 19 (inside) 14 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 5 lux.

INFERENCE: SECTION BB - 5th FLOOR:
As sun rises from east and sets in west, point 14 (outside) 45.6 lux located on the eastern side of the premises receives direct sunlight at 11 a.m. And point 7 (inside) 105 lux and 19 (inside) 61 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 42 lux.

ANALYSIS OF AA:

FLOOR	POINT	11 AM	3 PM
GROUND FLOOR	POINT 2 (INSIDE)	489	599
	POINT 4 (INSIDE)	599	489
	POINT 5 (INSIDE)	619	619
	POINT 16 (INSIDE)	619	619
5th FLOOR	POINT 2 (INSIDE)	432.33	573
	POINT 4 (INSIDE)	573	432.33
	POINT 5 (INSIDE)	573	573
	POINT 16 (INSIDE)	573	573

ANALYSIS OF BB:

FLOOR	POINT	11 AM	3 PM
GROUND FLOOR	POINT 14 (OUTSIDE)	13	14
	POINT 7 (INSIDE)	29.3	14
	POINT 19 (INSIDE)	14	29.3
	POINT 4 (INSIDE)	14	14
5th FLOOR	POINT 14 (OUTSIDE)	45.6	105
	POINT 7 (INSIDE)	105	45.6
	POINT 19 (INSIDE)	45.6	105
	POINT 4 (INSIDE)	105	45.6

BARC 1006 ENVIRONMENTAL STUDIES - 5



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Academic Year: 2022-23 Year: Fifth Yr. B.Arch. (Sem-10)

Name of Course: BARP 1011 Design Dissertation - 2

SITE ANALYSIS

SITE LOCATION: BRC G-Block, Mumbai

2000



BRC's use is primarily residential, as it still an open land. A huge transformation occurred in this area that was nothing but mostly land, now known as the BRC complex.

2023



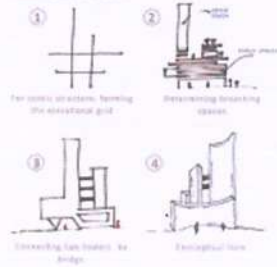
As the site evolves in BRC, Mumbai, its landscape clearly gives an idea of how the land transformation took place and how the BRC's BRC office, BRC's BRC office, etc. these spaces built over time are acting as landmarks to the site.

ACTIVITY MAPPING



Legend: Residential, Commercial, Recreational, Open space, Primary Road, Secondary Road, Water body, Landmark.

FORM DEVELOPMENT



SITE APPROACH



Delineating the site
- Defining the boundary of the site
- Defining the site's context
- Defining the site's location
- Defining the site's orientation

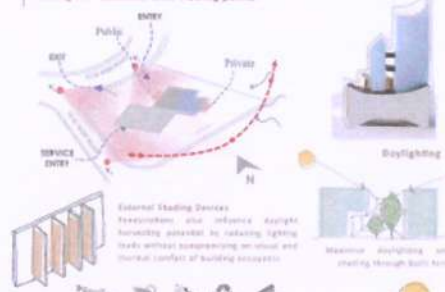
Segregation of blocks
- Defining the blocks
- Defining the blocks' location
- Defining the blocks' orientation
- Defining the blocks' form

Considering the mass and delineating the potential edge on site
- Defining the mass
- Defining the mass' location
- Defining the mass' orientation
- Defining the mass' form



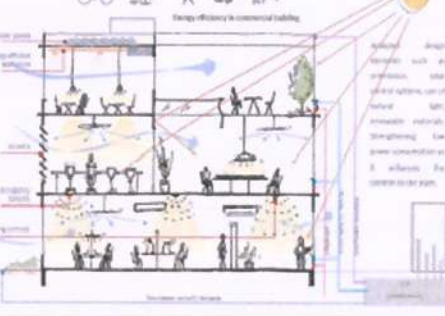
Land Use: Residential, Commercial, Recreational, Open space, Primary Road, Secondary Road, Water body, Landmark.

Existing site condition with viewing points



Transformation that took place from 2000 till present day

Daylighting and shadow analysis



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SITE PLAN



GROUND FLOOR PLAN



S: A19: 1:750
ALL DIMENSIONS ARE IN METERS

FLOOR PLANS



VIEWS AND SECTION



MULTI-UTILITY CENTER

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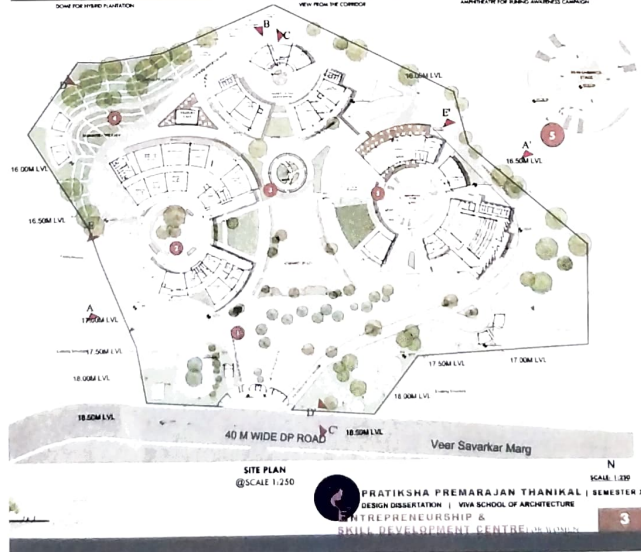
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LIFE DEATH AND DEVOTION URBAN RENEWAL OF TRIAMBAKESHWAR TEMPLE PRECINCT

The design and development of the temple precinct is a result of the urban experience that has been continuously and organically developing throughout history. The design and development of the temple precinct is a result of the urban experience that has been continuously and organically developing throughout history. The design and development of the temple precinct is a result of the urban experience that has been continuously and organically developing throughout history.

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"LIFE, DEATH AND DEVOTION"
URBAN RENEWAL OF TRIAMBAKESHWAR TEMPLE PRECINCT

INTRODUCTION

WHY TRIAMBAKESHWAR?

EVOLUTION OF TOWN AND MAPPING OF CHANGE IN LAND USE

LOCATION

URBAN MAPPINGS

SITE ANALYSIS

CONCEPT AND DESIGN APPROACH

ZONING-DIVISION OF SPACES

SUSTAINABLE APPROACH

PRINCIPAL OF DESIGN NEED WHILE PLANNING OF THE PRECINCT

"DESIGN"
DESIGN IS FINAL RESULT OF COORDINATED DESIGN CONCEPT, NEED AND FORM

CONCEPTUAL MASS

USER ANALYSIS

FESTIVAL AND EVENTS ON SITES

ACTIVITIES ANALYSIS AROUND THE PRECINCT

ELEVATION PLANNING APPROPRIATE VERBAL POCKETS

LIFE DEATH AND DEVOTION
URBAN RENEWAL OF TRIAMBAKESHWAR TEMPLE PRECINCT

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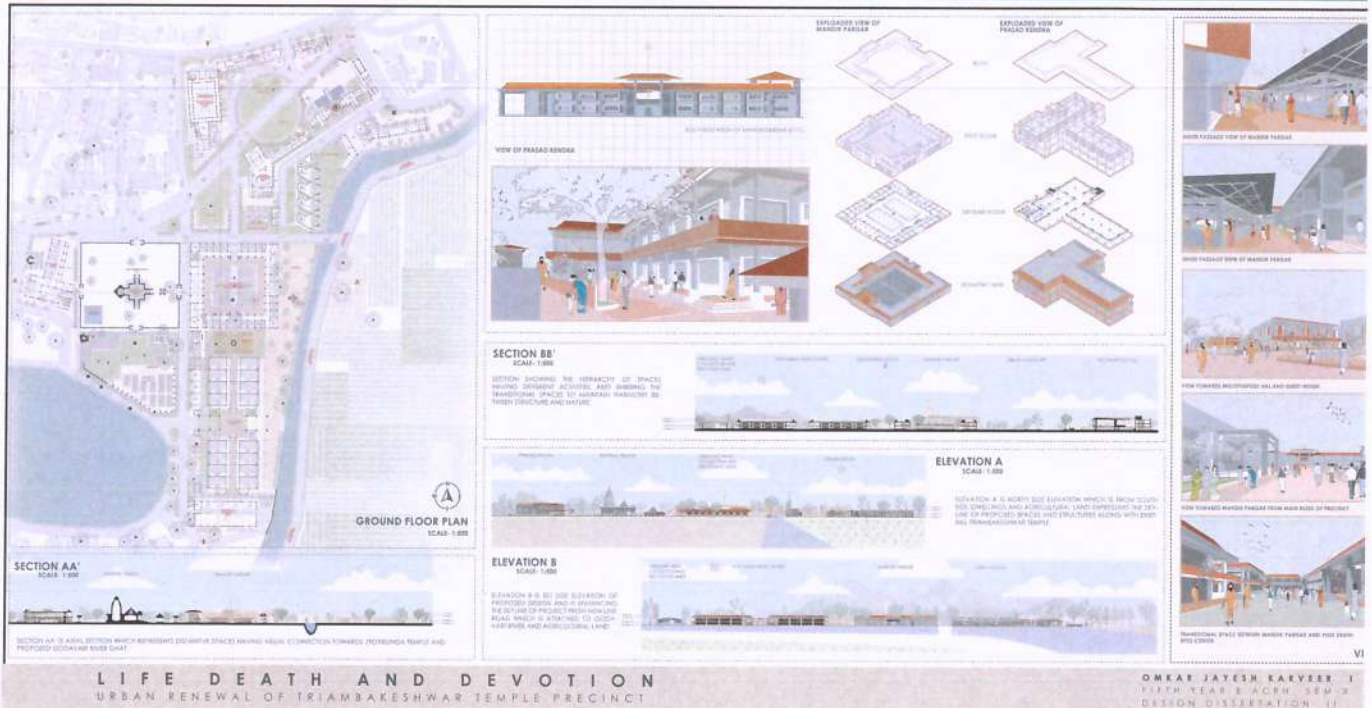
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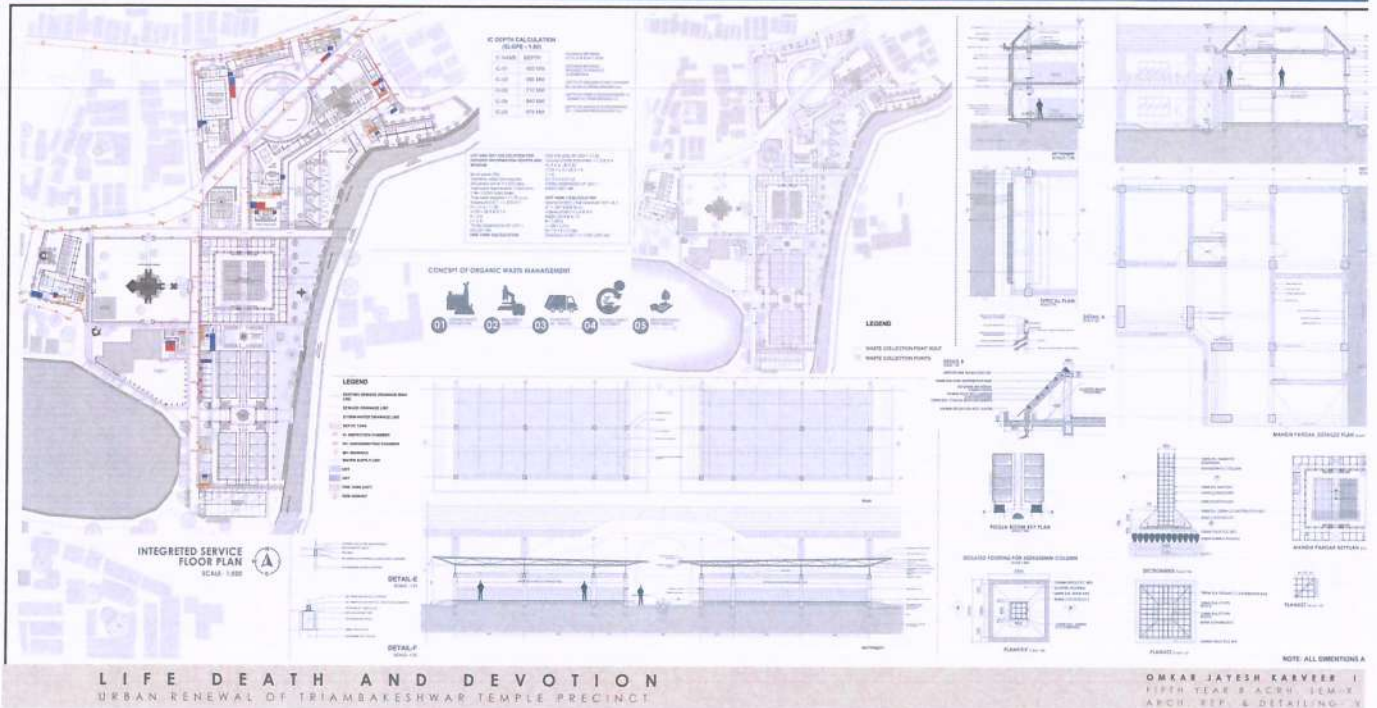
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CRITERIA 1 – CURRICULAR ASPECTS

KEY INDICATOR: 1.3 Curriculum Enrichment

1.3.1, 1.3.2

ACADEMIC YEAR: 2018 – 2023



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Key Indicator- 1.3 Curriculum Enrichment

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

Submissions Samples



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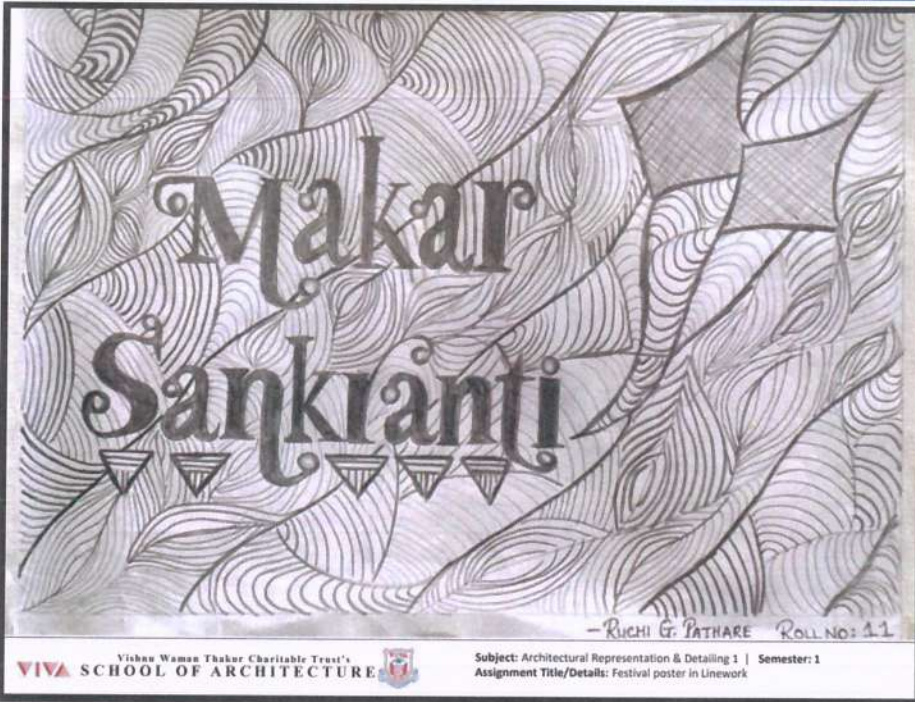
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Academic Year: 2020-2021 Year: First Yr. B.Arch. (Sem-1 & 2)

Name of Course: BARC 105 & 205 Humanities

PEDAGOGY

The theory based subject was started with an interesting activity of Creating Abstract Painting based on Architecture and Culture. This gave a strong base for students to interact and present their work explained about Architecture and Culture.

Lecture series conducted by faculties included the start of Prehistoric, Historic and the evolution of Humans and technology. Students were further introduced to the World history systems of knowledge, History of culture understanding human cultural development, products and sociology Chronology India and the world.

The study were made to analyze different monuments by sketching them and thereby exploring the evolution of Architecture.

INTENT -

The intent of the assignment was to understand the inter-relation between Architecture and Culture through the abstract painting in any color medium.

OUTCOME-

Students explored various abstract ideas about the culture through food, people, festivals, rituals and depicting architecture that has influenced the same. Few examples had glimpse of different countries talking about their civilizations and culture.

SEMESTER 1,2

ABSTRACT PAINTING 1

The abstract captures the essence of Maharashtra culture and its heritage throughout the years.

The fort symbolizes strength, victory over defeat and displays the valour of Chhatrapati Shivaji Maharaj.



ABSTRACT PAINTING 2



The abstract depicts the interrelationship and the importance of culture in architecture.

The staircase in the centre illustrates the growth and development of us humans and depicts that we shouldn't forget our lineage while modernizing.

ABSTRACT PAINTING 3

The orange colour represents the Hindu culture, blue represents lord shiva furthermore the brown colour formed by the merging of orange and blue represents the infinite space and universe.

The 12 dots represents as the 12 jyotirlingas in India. Coming to the centre is the tripund bhat with a Shivalinga which also represented as an arched gateway towards the lord.



SYMMETRY
"The most common thing"
"Old school, new to the modern"



Colosseum, Rome



A church in Goa

A Heritage Temple in Tamil Nadu



Colosseum, Rome
Petronas Twin Tower, Malaysia

HUMANITIES

Academic Year: 2020-2021 Year: First Yr. B.Arch. (Sem-1 & 2)

Name of Course: BARC 121 & 221 Elective

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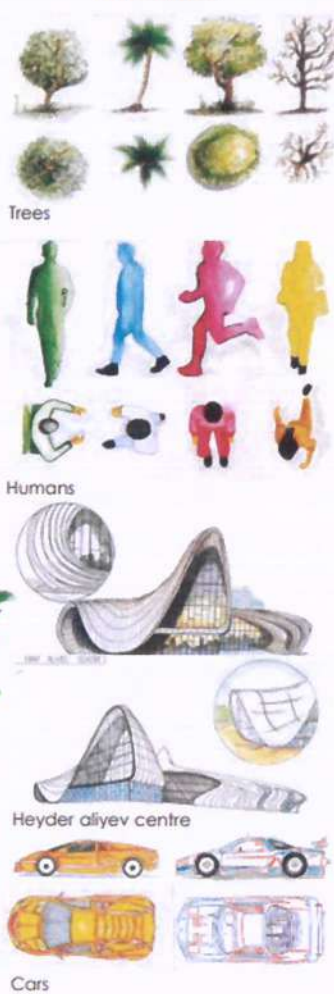
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HAND RENDERING



SILHOUETTES



PEDAGOGY

The purpose of the course is to teach the learner different representation and drawing skills in architecture. The course started with introduction to the drafting table, drafting tools and various sizes of papers that a learner uses across academic years.

Hand Rendering:

The focus was to develop hand drafting and sketching skill. Various line work exercises were given including Free hand sketching objects, different views and orthographic projections. Different medium of rendering techniques were also taught to the students. For understanding the basics of designing and model making were introduced to understand the Principles and Elements of Design also various colour combination and colour theory for which their creative aspect was enhanced .

A line dot curve model formulated from 2D doodles, which were attempted using several patterns established by positioning lines, dots and curves. The model was created considering the play of shades and shadows, distinct levels and cut outs were intertwined to enhance the same. The subject concluded with,

3D sculpture

1. Architectural College Campus
2. Garden Park

SEMESTER 1,2



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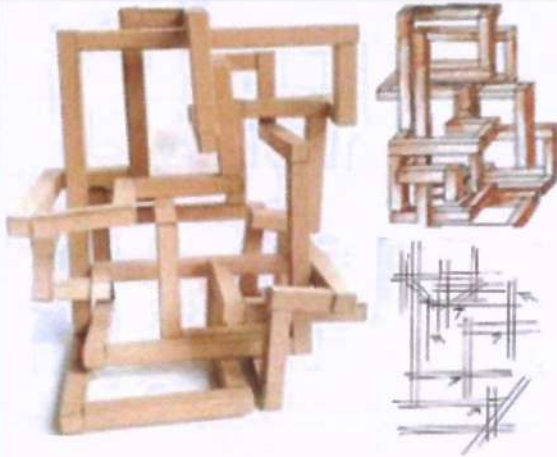


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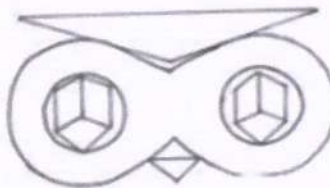
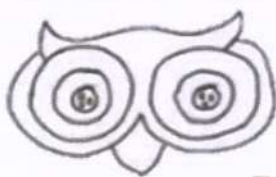
SCULPTURE



CREATIVE COLOR WHEEL



This is an geometric sculpture, in this sculpture there is "the curiosity feeling because the sculpture has no start or end the line which are passing each other or the joints it creates unity.



3D MODEL



ELECTIVES



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Academic Year: 2018-2019 Year: First Yr. B.Arch. (Sem-2)

Name of Course: BARC 106 Environmental Studies - 2

Title of Assignment: Environmental Issues through Newspaper Cuttings



Learning through analytical skills: Newspapers by First Year Students highlighting Environmental Issues

(Academic Year 2018-19)



Academic Year: 2020-21 Year: Second Yr. B.Arch. (Sem-3)

Name of Course: BARC 305 Humanities - 3

Title of Assignment: Historical Timeline



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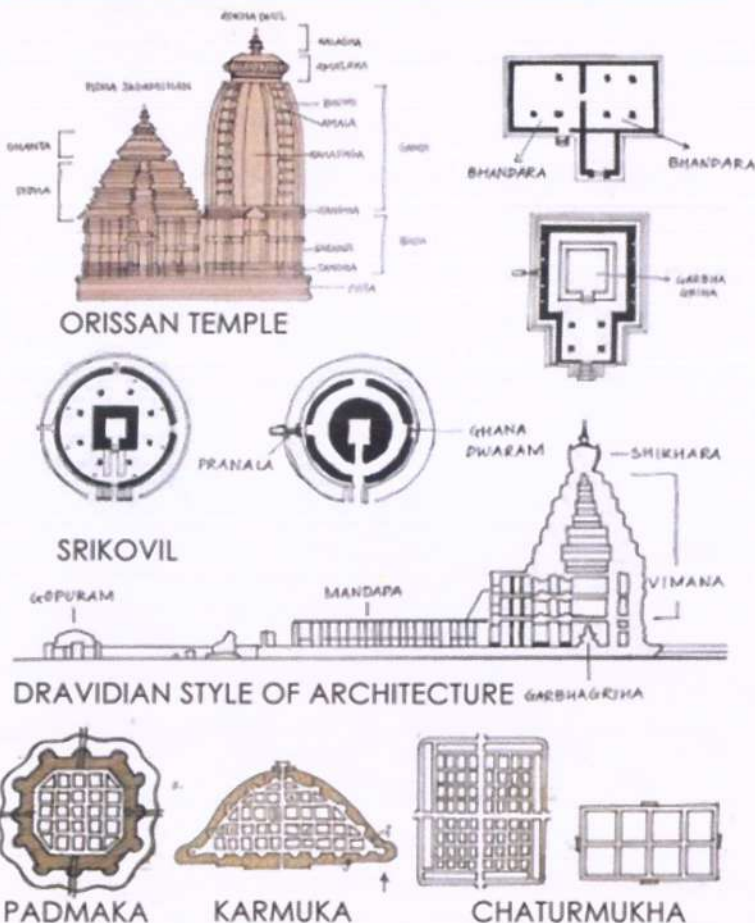
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PEDAGOGY

SEMESTER 3

The theory based subject for sem III included the background study of the western architecture. The subject had also included about the detailed description of the western architectural styles that evolved during the course of time. The semester covered the oldest architectural styles in western countries and introduction to Vedic town planning of India, it's planning techniques, its construction techniques, etc.



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VEDIC PERIOD 	 27BC Birth of Jesus Christ	 29AD Birth of Buddha	 29AD Death of Jesus Christ	 33AD The Crucifixion	 35AD The Resurrection	 43AD The Last Supper
DANDAKA 	 048C The Buddha's death	 29AD The Buddha's death	 29AD The Buddha's death	 33AD The Buddha's death	 40AD The Buddha's death	 43AD The Buddha's death
SARVATHOBHADRA 	 56AD The Buddha's death	 64AD The Buddha's death	 64AD The Buddha's death	 66AD The Buddha's death	 70AD The Buddha's death	 285AD The Buddha's death
SWASTIKA 	 64AD The Buddha's death	 64AD The Buddha's death	 64AD The Buddha's death	 120AD The Buddha's death	 312AD The Buddha's death	 313AD The Buddha's death
PRASTARA 	 324AD The Buddha's death	 410AD The Buddha's death	 800AD The Buddha's death	 1506AD The Buddha's death	 1675AD The Buddha's death	 1928AD The Buddha's death
HUMANITIES	 326AD The Buddha's death	 410AD The Buddha's death	 800AD The Buddha's death	 1923AD The Buddha's death	 1936AD The Buddha's death	 1971AD The Buddha's death



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Academic Year: 2020-21 Year: Second Yr. B.Arch. (Sem-3)

Name of Course: BARC 301 Architectural Design Studio - 3

Title of Assignment: Luxury residence at Palghar

PEDAGOGY

- Design need to take into account the residential activities suitable to varied age groups as well as cultural context in which they live.
- Design must create environments that support and ease the transition from outdoors to indoors and vice versa.
- Design must provide comfort and security, space, light, color, texture and much more enhancing the family culture and well-being.

The design topic for Semester-3 was Luxury residence, at Palghar.

SITE DETAILS

Site is situated in Nallasopara, Umrale. Site has a reach vegetation and is secluded from the main city area having a lake adjacent to the site. site is approximately 2450 Sq M.



SITE ANALYSIS



CONCEPT AND FORM DEVELOPMENT

SEMESTER 3

WALKING THROUGH WOODS

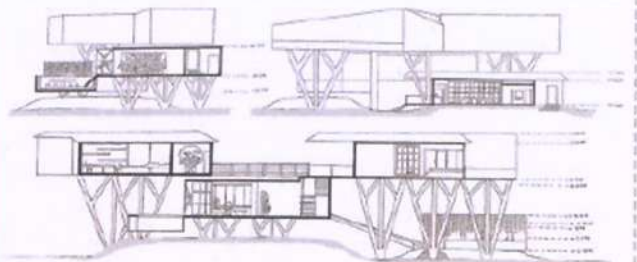
Making a house that can be sold home using site's strengths. The home was planned with levels allowing the views to be panoramic with minimal structural intrusions lifting the structure with help of stilts made of timber and steel. Ramp joining different levels and with the presence of woodlands around giving the ambience of walking through woods.



SITE DEVELOPMENT



SECTIONAL ELEVATION



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CONCEPT AND FORM DEVELOPMENT, INTERIOR AND LANDSCAPE VIEWS



KOMOREBI

"Sunlight shining through the leaves of the trees".

The feeling and atmosphere when light shines through the leaves of trees and experience lived in house on daily basis is pleasing and the sunlight entering the structure will create the feeling of liveliness within the structure by the movement of light and shadow throughout the day.



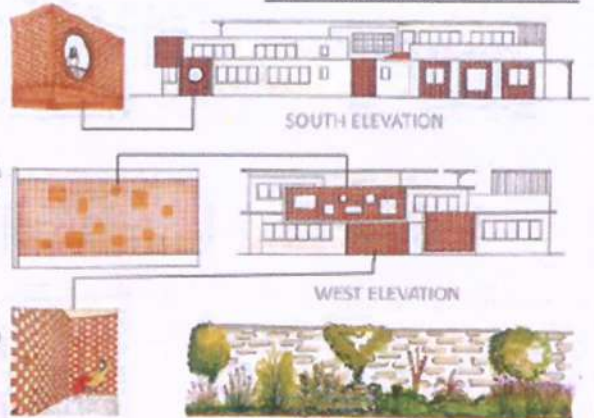
PLAN



ARCHITECTURAL DESIGN



ELEVATIONAL FEATURES



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Academic Year: 2020-2021 Year: Third Yr. B.Arch. (Sem 5)

Name of Course: BARC 505 Humanities - 5

Title of Assignment: Pompidou Structure and Works of Architect

ARCHITECTURAL DESIGN

PROJECT NAME: BUDGET HOTEL

Site Location - NH48, Palghar Virar

Site Area - 4745 SQ.M.

No. Of Levels - G + 3 floors



VIEW 1



VIEW 2



VIEW 3

ISOMETRIC VIEW



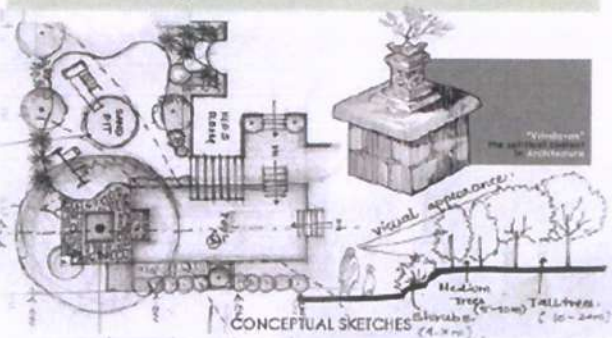
SECTIONAL ELEVATION



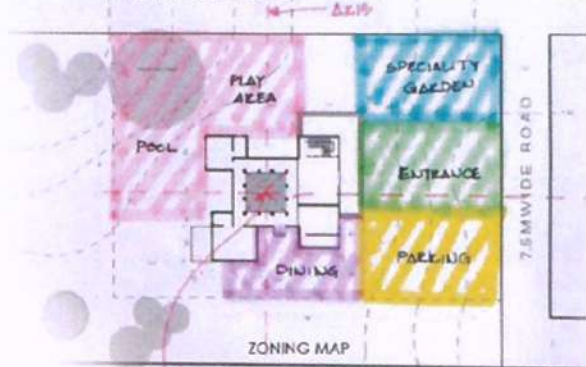
PLAN

PEDAGOGY

The process began with Introduction to Landscape Design & History of Landscape Design, introduction to various natural landscape forms in nature and definitions of key Vocabulary in landscape spaces. Understanding of contour and hydrology and modifications along with various materials and lighting techniques used in the design. The course concluded with a landscape design proposal with proper implementation and representation of the topics covered during the semester.



CONCEPTUAL SKETCHES



ZONING MAP

SEMESTER 5



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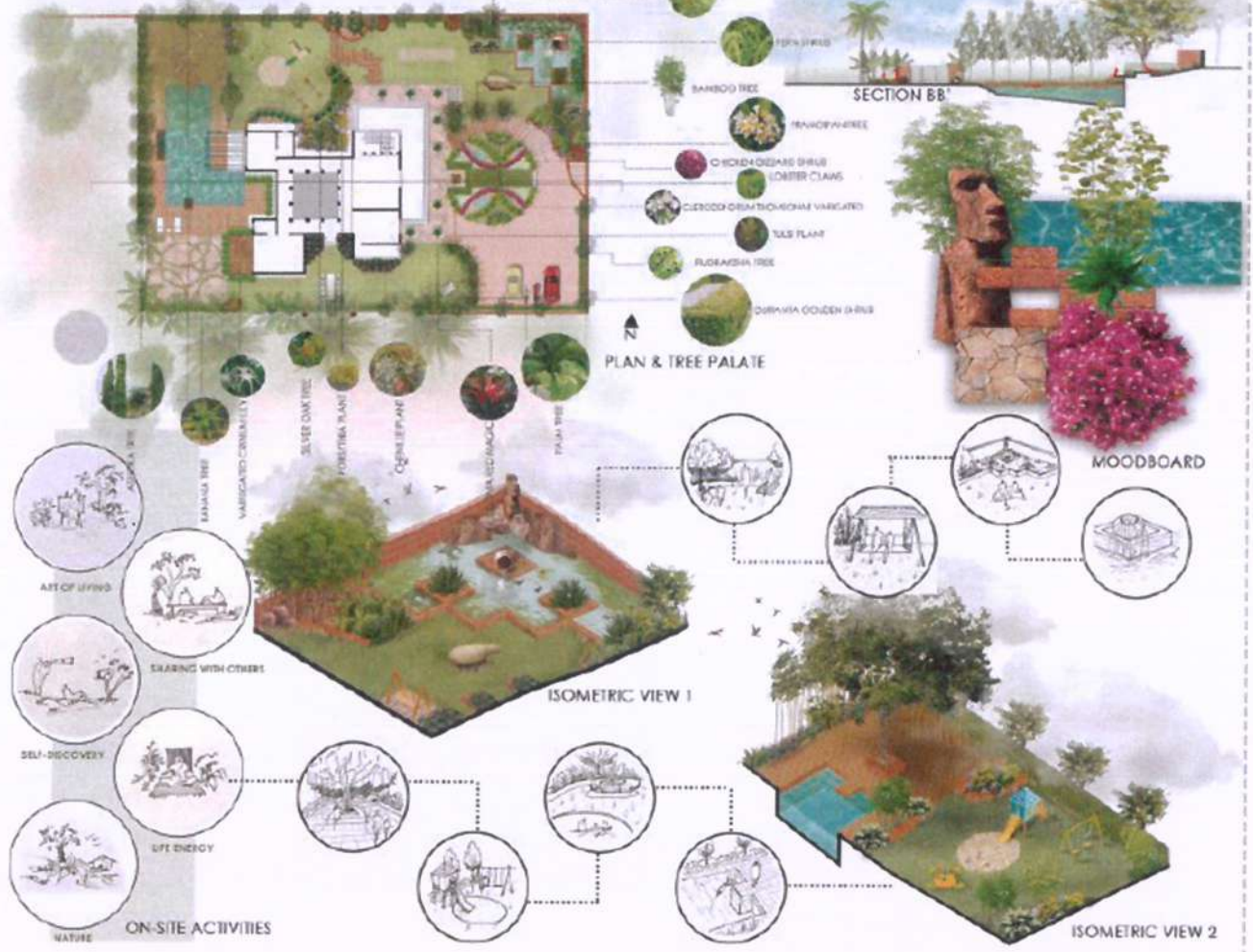
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ALLIED DESIGN (LANDSCAPE)

Site Location: BORIM, GOA, INDIA

Site Address: Laulotim, near Zuari river, Borim, Goa - 403106

Aim: To design a landscape for the existing structure considered as the holiday home



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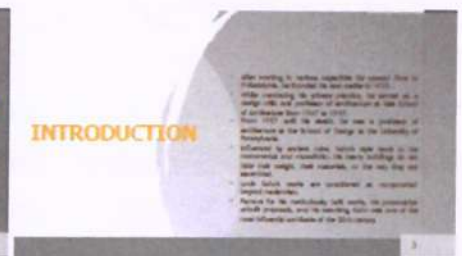
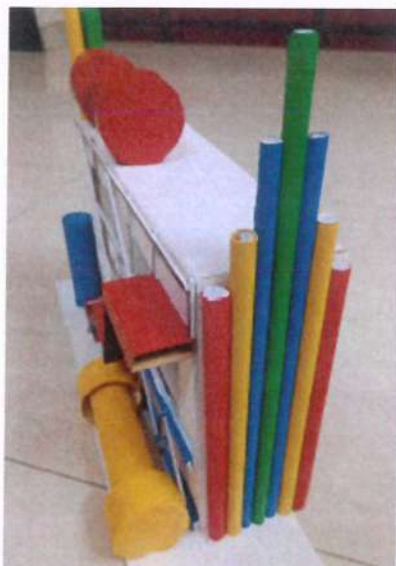
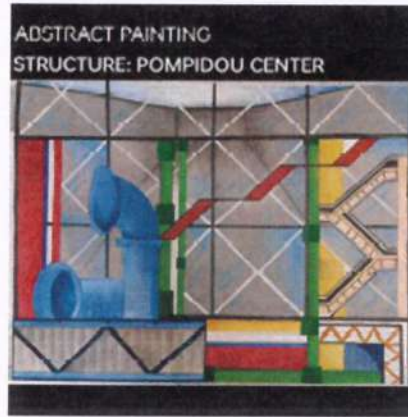
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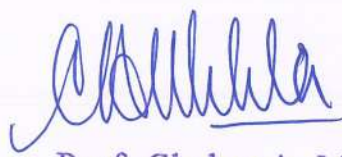
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Academic Year: 2021-2022 Year: Third Yr. B.Arch. (Sem 5)

Name of Course: BARC 505 Humanities - 5

Title of Assignment: Pompidou Structure and Works of Architect



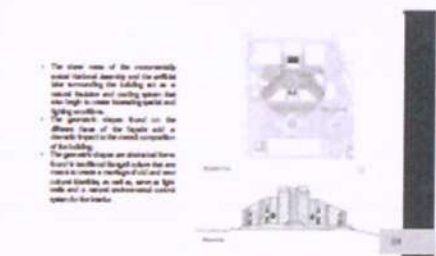
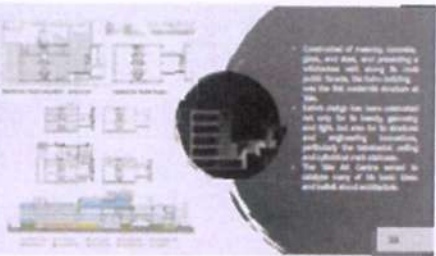
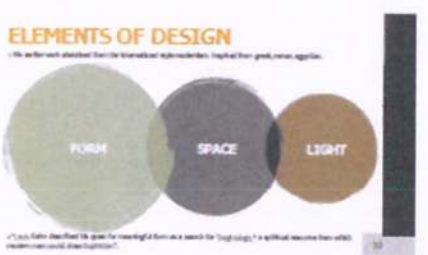
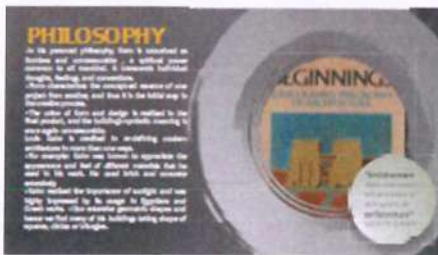
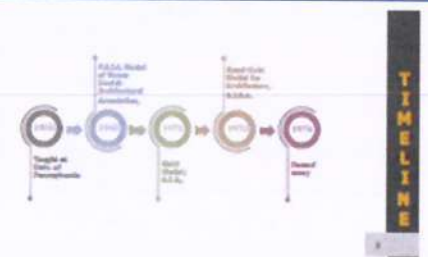

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Academic Year: 2021-2022 Year: Third Yr. B. Arch. (Sem 5)

Name of Course: BARC 502 Allied Design Studio (Landscape Architecture and Design)

Title of Assignment: Different Forms of Trees and Landscape design

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ALLIED DESIGN- LANDSCAPE (ENVIRONMENT CATEGORY)

10/17/2021 10:10:22 AM



Prathmesh Sunil Bhosale
Roll No. 03
Semester V - 3rd Year
Viva School of Architecture
Academic Year: 2020-2021

Form of Tree	Sketch	Examples	Common Names	Scientific Name
ROUND			Tree of India Pune (Pune)	Large tree Magnolia
SPREADING			Tree Tree	Tree Tree
PIRAMIDAL			Blue pine Pine tree	Pine Pine

Form of Tree	Sketch	Examples	Common Names	Scientific Name
OVAL			Tree Tree	Tree Tree
CONICAL			Tree Tree	Tree Tree
WIDE			Tree Tree	Tree Tree

Form of Tree	Sketch	Examples	Common Names	Scientific Name
COLUMNAR			Tree Tree	Tree Tree
OPEN			Tree Tree	Tree Tree
WEEPING			Tree Tree	Tree Tree

Form of Tree	Sketch	Examples	Common Names	Scientific Name
BEDDLE			Tree Tree	Tree Tree



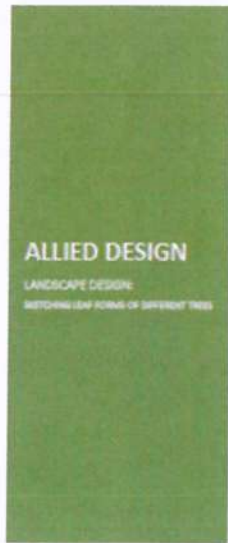
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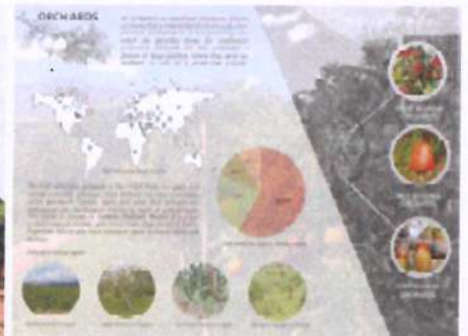


Prathmesh Sunil Bhosale
Roll No-02
Semester V - 3rd Year
Viva School of Architecture
Academic Year: 2020-2021

BMC 002		Semester V: Form of leaf		Allied Design
Date: 5		Prathmesh Sunil Bhosale		Roll no. 02
Name of leaf	Sketch	Image of leaf	Image of tree	Type of leaf
MAHOG				Single alternate branching leaves
FUNDA COCONUT				Compound
PEPAL				Compound
NEPAL ALINDO				Simple
NEPAL				Compound

BMC 002		Semester V: Form of leaf		Allied Design
Date: 5		Prathmesh Sunil Bhosale		Roll no. 02
Name of leaf	Sketch	Image of leaf	Image of tree	Type of leaf
ARJUNA				Simple leaf venation
PAUN				Compound leaf
PARVA				Compound compound
COCONUT				Cluster of leaves

BMC 002		Semester V: Form of leaf		Allied Design
Date: 5		Prathmesh Sunil Bhosale		Roll no. 02
Name of leaf	Sketch	Image of leaf	Image of tree	Type of leaf
MAHOG				Simple



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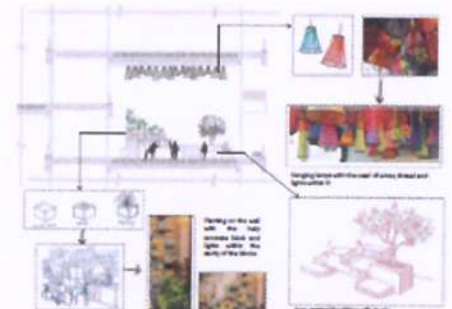
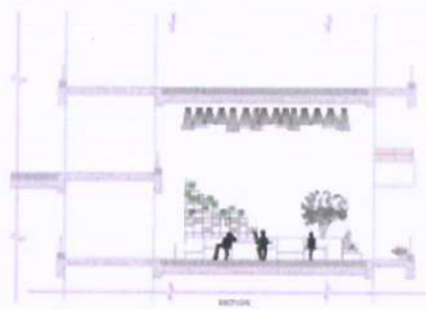
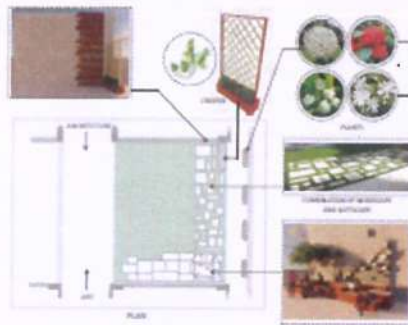
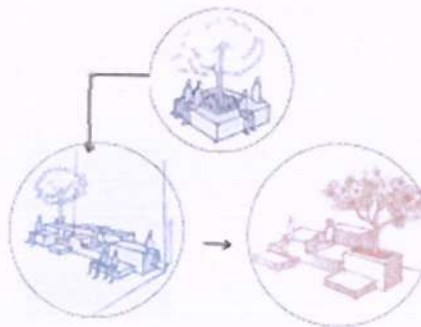
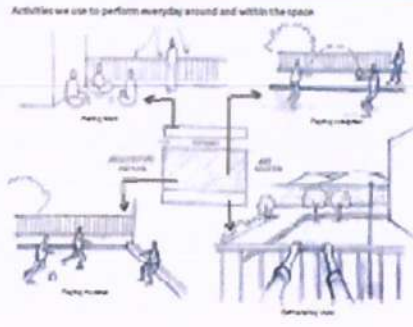
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Many plant generally grows well in direct sunlight in garden, in water stream, or low light conditions. A partially sunny and partially shady area is also preferred for good growth of many plants.

Other grows in the garden as an ornamental shrub or small tree. Planerias create bright sunlight and moderate humidity for optimum growth and require at least 4 to 7 hours of direct sun every day. An essential care is required in the peak summer when Planerias needs are little shelter compared to the height of the plants. The best option is a small wall screen.



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Academic Year: 2020-2021 Year: Third Yr. B. Arch. (Sem 5)

Name of Course: BARC 503 Architectural building Construction - 5

Title of Assignment: Canopy Design

CANOPY DESIGN



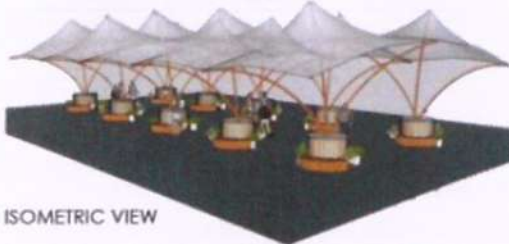
CANOPY DESIGN



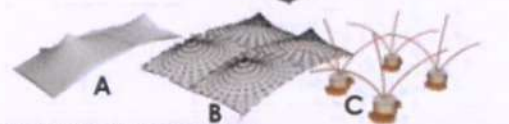
PROCESS WITH VIEWS



CONCEPTUAL DEVELOPMENT



ISOMETRIC VIEW



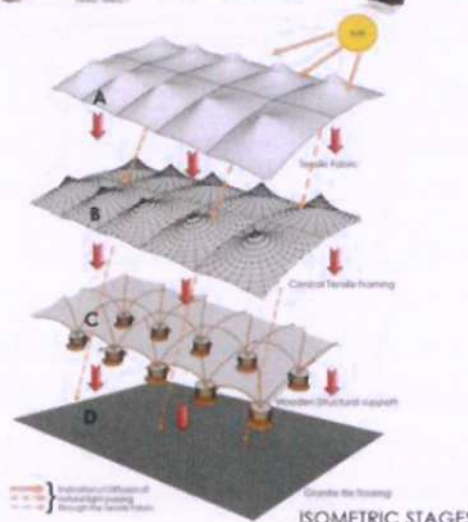
ELEMENTS OF THE CANOPY



CONCEPTUAL DEVELOPMENT



CANOPY DESIGN



ISOMETRIC STAGES

ARCHITECTURAL BUILDING CONSTRUCTION

Academic Year: 2020-2021 Year: Third Yr. B.Arch. (Sem-5)

Name of Course: BARE 509 Architectural Theory - 3

Title of Assignment: Research and Criticism



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VIVA School of Architecture

New Building, VIVA Campus, Shirgaon, Virar East, Dist. Palghar, Maharashtra – 401 305

Contact Nos. – 7744871000 & 7447491000 (WhatsApp Enabled) Fax No.- 0250 - 2515275



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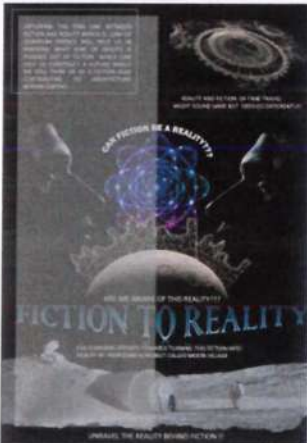
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Architecture for Women

Architecture for Women expounds how architecture can flourish with feminist theory for empowering women. Feminist theory is the extension of feminism into theoretical, fictional, or philosophical discourse. Its analysis of architecture shouldn't only have an interest in "women's place" in society, but in gender relations, also the importance and sort of individual experience. Feminism weds theory to practice and encourages us to rethink and undermines winner/loser dynamics of how architecture gains from addressing "Women's" concerns.



Fiction to Reality

Existing laws of quantum physics states how fiction can be a reality under certain alteration according to law of physics . Fantasy of colonization on moon can be a reality depending on ESA's upcoming project of creating a moon village . Awareness among people about these facts can help them look into realities that are possible behind these fictions which is necessary to motivate young minds to create a future which is yet "a fiction" for us.

PEDAGOGY

RESEARCH AND CRITICISM

Focusing on the fundamentals of theoretical architectural research, its objectives and its essential methodologies research article has been written by the students. A small projects of research and reflective writing have been undertaken by students to develop personal skills of research presentation and critical evaluation (using previously gained knowledge of referencing and citation).

Students have also been encouraged to write pieces that are argumentative, and disputational to be able to convey with clarity and effectiveness alternative and individualistic thinking about architecture.

Process/ evolution :

Firstly, the students were asked to choose a topic about the fundamental issue and on- going trend n the field of Architecture.

Then, on choosing the Topics they were asked for the detailed study and research on the topic they opted for the Architectural Theory course.

Co-ordinating with the guides and with their guidance and references the students improvised the study and wrote the article in their own vocabulary.

Students were asked to make posters highlighting and drawing an attention towards the issues, strengths, growth in the field of Architecture depicting the topics through various principles of design , Bauhaus patterns, and Architectural elements to portray the topic studied while in the course of Architectural Theory.

SEMESTER 5

ARCHITECTURAL THEORY



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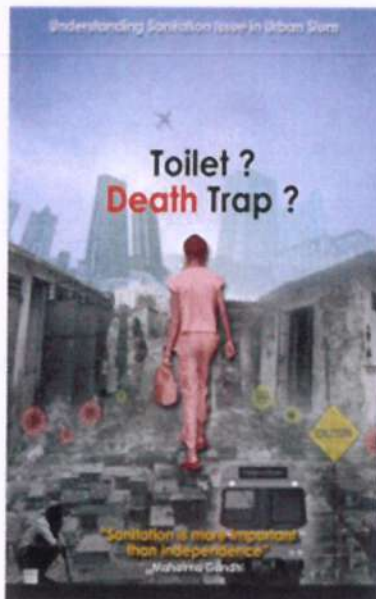
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Understanding sanitation issues in the slum



Architecture: Building a profession of stress?



Intelligent building



From Big Countries to your Country



Lightweight Architecture in advance structures



Vertical Farming



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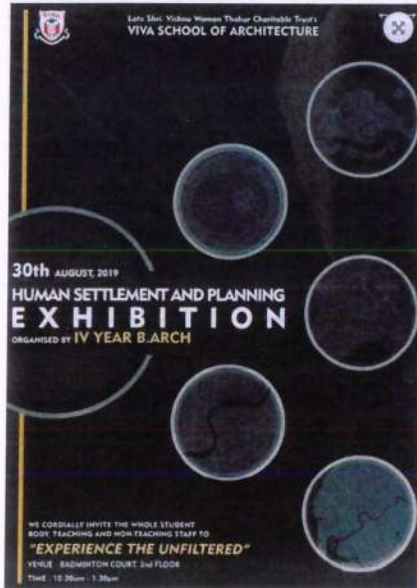
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Academic Year: 2019-2020 Year: Fourth Yr. B.Arch. (Sem - 7)

Name of Course: BARE 721 Elective - 7

Title of Assignment: Human Settlement and Planning Exhibition through models



Participatory Learning: Exhibition by the students on Human Settlement and Planning, Semester 7 A.Y. 2019-20



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Academic Year: 2022-23 Year: Fourth Yr. B.Arch. (Sem-7)

Name of Course: BARC 701 Architectural Design Studio - 7

Title of Assignment: Mass Housing (Design Project)

DESIGN BRIEF

Mass Housing at Juchandra

Regionalism is not simply the nostalgic privileging of the vernacular form, but a synthesis of the vernacular with modernism. It is a way of thinking about architecture which is culturally regenerative – not a style, but a search for a cultural continuity. It implies the embracing of modernism, whilst simultaneously maintaining links with traditional forms and practices

- Robert Powell, 1993

AN ARTIST'S PARADISE

Mass Housing has been conceived as either vertical extensions of an efficient floor plan or stand-alone pieces of urban sculpture. In both cases, the only relationship with the urban setting is a visual one, with the building usually dominating. It has led to the syndrome of tower blocks in 'historic' and 'picturesque' street scenes, immobile parks, models that are rarely transportable around the world. This has created an alarming homogeneity across global urban centres – a creation of a 'one size fits all' 'skyscraper' model. This is especially true of cities in developing nations, where the imported, rectangular, 'architectural' form is the standard option. Also, housing has become synonymous with the 'gravel' burden on environment with excess use of energy and resources – in both embodied construction and operation. In short, these high-rise buildings are contributing to the degradation of both the local (cultural) and the global (climate change).

AIM:

To design well integrated and self-sustainable housing complex at Vasa – Virar (Juchandra), considering the Local Building Bylaws.

Floor Space Index (F.S.I.) or F.A.R. to be considered as per the Site.

- SITE AREA = 9,945.00 sq.m
- PERMISSIBLE F.A.R = 3.0

COMMERCIAL COMPONENT:

- 30% of PSI to be developed into Commercial Component
- Commercial Complex to be developed on site considering the potential of site and site context

RESIDENTIAL COMPONENT:

- Unit Type: Studio Apartment, 1BHK, 2 BHK
- Unit Area: as per Market Study and Analysis
- Lift for 6 to 8 persons (find out information about size of lift well and internal size, details of machine room, lift pit etc.)
- Staircase as per the By-law.
- Vehicular and Pedestrian accesses

COMMON AMENITIES:

Club house, Swimming Pool, Kids Play Area, Box Cricket Net, Other Recreational Activities as needed

SUSTAINABLE ASPECTS:

- Rainwater Harvesting
- Solar Energy
- Green and Eco-friendly Building Material
- Passive Strategies
- Solid Waste Management and other techniques of sustainable use and development

NOTES:

- Carpet Area mentioned can be 30% plus or minus.
- Carpet Area mentioned for privy is inclusive of area for all habitable rooms, toilets, passage, balconies, cantilever wardrobe, 50% area of open terrace attached to flat
- F.S.I. shall be calculated as per line diagram

02

MASS HOUSING AT JUCHANDRA

SITE ANALYSIS

The site for this project is in the neighbourhood of VVCM, the site is located in Rajgurunagar East. Due to the demographic shift there is shortage of dwellings and increased migration demands a need of planned and well-integrated MASS HOUSING. These sites become a key factor especially where land availability is a challenge. This site is in the pressure location. It comes for its proximity to its connectivity with the network of road and railways. It is also surrounded with amenities such as shops, schools, recreational areas, hospitals, etc.

CLIMATOLOGY

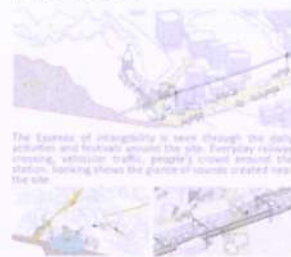


SITE ANALYSIS



The site receives wind from the western side and the site is oriented towards western direction for about 20 degrees.

INTANGIBLE SPACES



The essence of intangibility is seen through the daily activities and habits around the site. Everyday railway crossing, vehicular traffic, people's crowd around the station, banking shows the glance of sounds created near the site.

SWOT ANALYSIS

- S** Region is still under development, which creates an opportunity for wind flow, site view. The site has the scope of green spaces, schools, medical facilities and other amenities are present nearby the plot.
- W** Plot is situated near the railway station. It can create water obstruction for low ground of area since the railway track is not used as a regular train. The ongoing construction of bridge on the main road near is the major weakness for the site.
- O** Scarcity of amenity spaces with the site makes it an off-shooter around the structure. Good opportunity to set a landmark.
- T** Transportation changes caused by the recently starting the building. Changing the route of traffic/transportation towards water areas.

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02



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ABHIJEET A. CHAVAN

"As an architect, you design for the present, with an awareness of the past for a future which is essentially unknown."
- Norman Foster

PROJECT DETAILS
Site Location: Ashfunda, Nagpur, Maharashtra, India
Site Area: 32,284 Sq.m
No. of Units: G + 12 Floors
Project Typology: Mass Housing

DESIGN APPROACH
Planning of units in such a way that the earth room will get a good view point and also, variety that will make place.
Facilitating interaction and green open spaces for the all age group residing there.
The site location has a surrounding community which is well known for their various kind of activities like swimming, sports, playing, games and others etc. One of their well known sites include the WARDI ART. The trademark of Wardi paintings is the use of geometric designs such as triangles, circles, squares, dots and lines.

FORM DEVELOPMENT
The concept is derived from these shapes of the WARDI ART. The aim of the building is to create an OPEN structure in the suburbs which will enhance the local art of the surrounding.

ZONING

CONCEPT DEVELOPMENT

FLOOR PLANS

ELEVATIONS

UNIT PLANS

INTERIOR VIEWS

SITE PLAN

07

FLOOR PLANS

ELEVATIONS

UNIT PLANS

INTERIOR VIEWS

08

MASS HOUSING AT JUCHANDRA

Architectural Design Compendium 2022-23 | Semester VII | Batch 2019 | VIVA School of Architecture

JERRIN ABRAHAM

"Decent, affordable housing should be a basic right for everybody in this country. Without stable shelter, everything falls apart."
- Matthew Desmond

PROJECT DETAILS
Site Location: Juchandra, Nagpur, Maharashtra, India
Site Area: 32,284 Sq.m
No. of Units: G + 14 Floors
Project Typology: Mass Housing

DESIGN APPROACH
As the project is Mass Housing and as per the housing need for the development of the site, the design was made as to provide the maximum number of residential units possible.
The form, color, and construction while planning were the main focus of the design. Design, materials, structure, framing and provision of recreational spaces for various nature conditions etc.
In terms of elevation, the approach was to keep the structure influenced by the surrounding buildings, with a simple yet a feasible facade.

CONNECTIVITY

SUN PATH

FORM DEVELOPMENT

01

PRATHMESH S. BHOSALE

"Architecture should speak of its time and place, but yearn for timelessness"

PROJECT DETAILS
Site Location: Juchandra, Nagpur, Maharashtra, India
Site Area: 32,284 Sq.m
No. of Units: G+14+G+12 Floors
Project Typology: Mass Housing

DESIGN APPROACH
Talking about Mass housing, earlier most of the buildings were G + 5 or G + 4 stories. It was design like a cluster of four buildings in which the central space was mostly the open spaces used as a multipurpose space.
Today as the population is going on increasing, the need for mass housing has also been increased. We have started moving vertically to increase the building footprint. But at the same time, somewhere we have started losing the liveliness that we use to see within such spaces.

UNDERSTANDING

VARIOUS ACTIVITIES

FORM DEVELOPMENT

02



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Academic Year: 2019-20 Year: Fifth Yr. B.Arch. (Sem-9)

Name of Course: BARC 906 Environmental Studies - 4

Title of Assignment: Post Occupancy Evaluation

POST OCCUPANCY EVALUATION AT YASH VIDYANIKETAN SCHOOL, VIRAR (WEST)

INTRODUCTION -
A STUDY WAS CONDUCTED TO UNDERSTAND THE WORKING OF BUILDINGS USED IN THE ACTUAL TAKEUP PLACE BEING FOR THE ABOVE STUDY. A SCHOOL WAS BUILT IN THE YEAR 2018 WHICH IS LOCATED IN VIRAR EAST THE SCHOOL IS BEAUTIFUL ONE WITH A UNIQUE CONCEPT OF DAY SCHOOL. THE MAIN PURPOSE OF THIS PARTICULAR STUDY WAS THE ARCHITECTURAL ASPECTS OF THE BUILDING AND THE WORKING OF THE BUILDING IN THE REAL WORLD. THE STUDY WAS CONDUCTED TO UNDERSTAND THE WORKING OF THE BUILDING IN THE REAL WORLD. THE STUDY WAS CONDUCTED TO UNDERSTAND THE WORKING OF THE BUILDING IN THE REAL WORLD.

BASE PLAN WITH ZONING

TABLE SHOWING HUMIDITY AND TEMPERATURE OF THE ROOMS

Floor	Room	Temp	Humidity
Ground	Reception	28.5	28.0
	Office	28.2	28.1
	Classroom	28.4	28.4
	Library	28.4	28.1
	Corridor	28.4	28.1
	Playground	28.4	28.1
First	Classroom	28.4	28.1
	Library	28.4	28.1
	Corridor	28.4	28.1
Second	Classroom	28.4	28.1
	Library	28.4	28.1
	Corridor	28.4	28.1
Third	Classroom	28.4	28.1
	Library	28.4	28.1
	Corridor	28.4	28.1
Fourth	Classroom	28.4	28.1
	Library	28.4	28.1
	Corridor	28.4	28.1
Terrace	Classroom	28.4	28.1
	Library	28.4	28.1
	Corridor	28.4	28.1

WIND VELOCITY

SECTION THROUGH CLASSROOMS

SECTION THROUGH CORRIDOR

ANEMOMETER

SUBMITTED BY

- SAURASH CHIBUD
- VINIT DUGGAD
- DATSHAN DALA
- MOHIT KAWADE
- SAGAR KHOT
- KONAN KINI
- VEDANT MARGAN
- KUNAL KANE
- PRITHVIRATHOD
- SHRIKANT
- PARTHI SHAH
- SHALMITI JABLE
- LEHMAN JODASAR
- JANARAY VASITAE
- ANUSHREE VNGURLIKAR

SEM - X | FIFTH YEAR B.Arch.



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Academic Year: 2022-23 Year: Fifth Yr. B.Arch. (Sem-10)

Name of Course: BARC 1009 Advance Theories - 4

Title of Assignment: Conceptual Development and Site Analysis

BARC 1009- Architectural Theory 4

MULTI-UTILITY CENTER

The name itself explains that it is a mixed use structure. This structure is designed to cater commercial and leisure activities. Where Mumbai has a rich historical background; focusing on BKC being a prominent upscale commercial hub planned to decongest the CBD in South Mumbai. As we can see the satellite image of year 2000 and the current year 2023, BKC has experienced a huge transformation where once it was a complete marshy land; now is known as BKC. Analysing the activity mapping of site; it is surrounded by back offices, institutes, headquarters but lacks in public spaces.

The site is well connected and has an access through 18 m wide and 30 m wide secondary road. The site location is a boon to the structure as it would stand out being an iconic one, creating a landmark by itself. Accordingly the site approach is determined; segregating the public and private zones, identifying the walkways and drive through, active frontages and ground coverage. In form development; elevational grid is identified, creating punctures for breathing spaces and bridging the gap between the spaces. The study model represents the massing of structure and the right bottom corner image is the conceptual sketch of the form.

This map represents the future impact of the structure and the change in surrounding land uses. The photo imaging shows the transition of BKC from 2000 till present day. According to daylighting and shadow analysis of winter and summer solstices the East to Southwest side experiences maximum daylighting which helps in the determining of techniques to be used. Such structure have a smart functioning efficiency; be it in terms of lighting sensors, PV panels, water recycling, e-bike provision, etc., Which contributes to the sustainability of structure.

SITE LOCATION: BKC G- Block, Mumbai

2000



BKC's rise to prosperity is commendable, as it built on barren land. A huge transformation occurred in this area that was nothing but marshy land, now known as the Banker's Kiosk complex.

2023



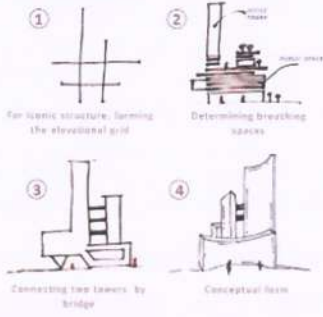
As the site location is BKC, Mumbai, the background study gives us an idea of how the land transformation took place and how the bank's back offices, Trident, 5-star hotel, etc their spaces built over time are acting as landmark to the site.

ACTIVITY MAPPING

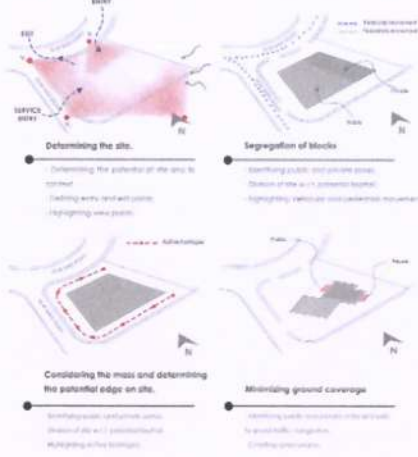


- Legends
- Highway/Street
 - Primary Road
 - Secondary Road
 - Open Space
 - Waterbodies
 - Landmark

FORM DEVELOPMENT



SITE APPROACH



STUDY MODEL



MULTI-UTILITY CENTER

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SITE ANALYSIS



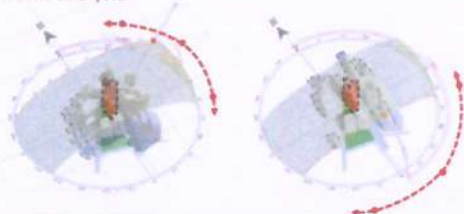
Future changes in landuse



Transformation that took place from 2000 till present day

Daylighting and shadow analysis

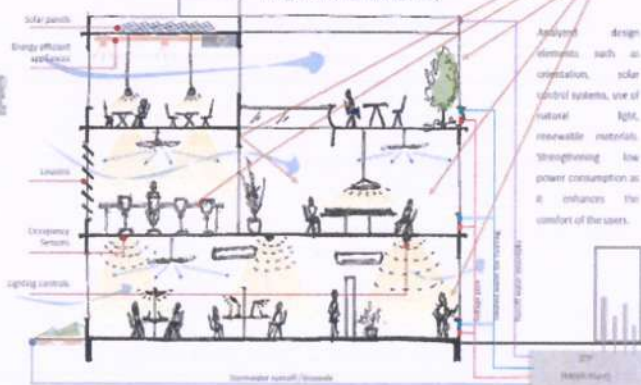
According to summer and winter solstices sun shading is required from East to South-west side.



Existing site condition with viewing points



Energy efficiency in commercial building



MULTI-UTILITY CENTER

VIVA SCHOOL OF ARCHITECTURE | DESIGN DISSERTATION 2 | FIFTH Y.B.ARCH. | SEM X

AKSHATA S SAVE | 41



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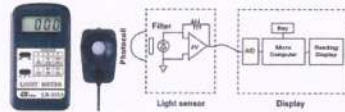
Name of Course: BARC 1009 Advance Theories - 4

Title of Assignment: Conceptual Development and Site Analysis

POST OCCUPANCY EVALUATION – LUX LEVELS

INTRODUCTION

LUX METER : Lux meters are used for measuring brightness in lux. In order to collect some lux meters are equipped with an internal memory or data logger to record and save measurements. The measurement of light intensity with a lux meter is becoming increasingly important in the workplace due to safety concerns. Lighting professionals use a light meter (also called an illuminance meter or lux meter) to measure the amount of light in a space on a particular work surface. The light meter has a sensor that measures the light falling on it and provides the user with a measurable illuminance reading.



DIGITAL LUX METER

DIGITAL LUX METER DIAGRAM

NEED TO MEASURE THE LIGHT WITH LUX METER : Lighting professionals use a light meter (also called an illuminance meter or lux meter) to measure the amount of light in a space on a particular work surface. The light meter has a sensor that measures the light falling on it and provides the user with a measurable illuminance reading.



CALCULATING LIGHT IN LUX METER

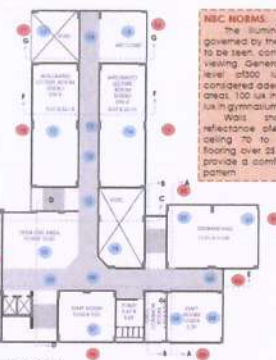
CALCULATING LIGHT IN LUX METER

HOW TO MEASURE LIGHT WITH LUX METER:

- 1. Measure Ambient light in the Room**
To begin, turn off any lighting in the room you're about to measure. Turn on the light meter to establish what is known as the baseline measurement – the ambient light. This means you can see how much the existing lighting adds to the room once the lights are turned on.
- 2. Turn on the lights. Take Your Measurement**
From a central area of the space, ensure your light meter is set up to record your new reading. Remember not to rush – allow the lighting a few moments to reach full brightness (especially if you're measuring light from CFLs).
- 3. Note Your Differential Reading**
Simply subtract the ambient light level from the illuminated level – known as the differential (or delta) measurement. This is the amount of light the existing luminaires produce. With this light measurement unit, you can assess how it compares to the optimal lighting levels required.
- 4. Check Other Areas of a Room**
For open office lighting or a corridor, the reading you get from your light meter should, in theory, be consistent. However, it might be worth checking any potential "blind" spots just to be sure you have consistency.



KEY PLAN :



IBC NORMS
The illuminance required is governed by the size of the object to be seen, contrast and period of viewing. Generally an illuminance level of 300 lux (horizontal) is considered adequate for teaching areas, 100 lux in corridors and 200 lux in gymnasiums.
Walls should have a reflectance of 60 to 80 percent, ceiling 70 to 75 percent and flooring over 35 percent so as to provide a comfortable luminance pattern.

METHODOLOGY:

1. A Lux Meter was used to understand the change in the daylighting.
2. This instrument measured the daylighting readings by using a protocol to capture light. The meter then converts this light to an electrical current, and measuring this current allows the device to calculate the lux value of the light it captured.
3. The first reading was measured at 10:15 - 11:15 am.
4. The second reading was measured at 1:00 - 2:00 pm.
5. The third reading was measured at 3:30 - 4:10 pm. The difference in daylighting at different times was studied and analyzed.

INFERENCE

There was a change in daylighting in the two readings that were calculated. The light changes depending on various factors such as:
• The rate at which light passes through the glass and is transferred to an object.
• It has been found that daylight factor is much higher than the standard values in east and west-oriented building components whereas the building components oriented in north and south, the daylight factor is little higher than standard values.
• According to our study, the proper illumination depends on the location and design of windows, light sources, the type of light fixtures, the selection of the light source, the intensity and distribution of the source and fixture combination, and the room environment.

SECTION EE:



PART PLAN :



SECTION EE :
• It covers the major part across the plane as there is more deflection seen in the readings of Luminance (lux) level gradually over the floor.
• Where the lux level is highest at the point 2 on second, third and fourth floor whereas at the lowest lux level is found at point 4 on the lower ground floor.

READING TABLES:

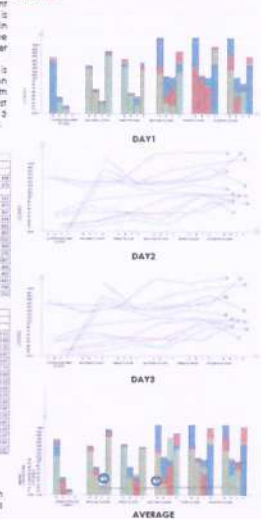
DATE	TIME	LOCATION	READING (LUX)
02.12.2022	10:15 - 11:15 AM	1	100
		2	200
		3	150
		4	50
	1:00 - 2:00 PM	1	120
		2	220
		3	170
		4	60
	3:30 - 4:10 PM	1	110
		2	210
		3	160
		4	55

ANALYSIS:

- Above graphs indicate that the Luminance levels (lux) on the upper floors are high from 10 am to 1 pm. The third floor in the afternoon had a higher intensity of lux levels than others.
- The fourth Graph represents the average value of the reading of Lux level and compares it with the amount of Ambient temperature in the respective timings.
- The highest ambient temp is 31°C and the lowest is 28°C.



GRAPHS :



ROLL NO. : 02.12.25.30.32.42.48.52.53.55.56

BARC 1006 ENVIRONMENTAL STUDIES - 5 GROUP - NO 4



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SECTIONS WITH ANALYSIS

SECTION AA:

ANALYSIS SECTION AA:

- In the adjacent graph of section BB the illuminance levels (lux) is MODERATE throughout the day.
- The highest ambient temperature recorded is 32°C and the lowest temperature is 20°C.

SECTION BB:

ANALYSIS SECTION BB:

- In the adjacent graph of section BB the illuminance levels (lux) is MODERATE throughout the day.
- The highest ambient temperature recorded is 32°C and the lowest temperature is 20°C.

SECTION CC:

ANALYSIS SECTION CC:

- Above graph indicates that the illuminance levels (lux) is MODERATE on the respective points due to the orientation of the building, in afternoon and evening first floor and ground floor has lower intensity of lux levels as compared to other.
- At 3 pm the lowest lux level is recorded at lower ground floor and highest of third floor.
- The highest ambient temperature recorded is 31°C and the lowest temperature is 27°C.

SECTION DD:

ANALYSIS SECTION DD:

- Adjacent graph indicates that the illuminance levels (lux) is HIGHER on the outermost points of the building due to direct sunlight.
- Points 16 and 17 have lower intensity of lux levels as compared to others.

SECTION FF:

ANALYSIS SECTION FF:

- Above graph indicates that the illuminance levels (lux) is MODERATE on the respective points due to the orientation of the building.
- The Corridor has a lower intensity of lux levels as compared to other points. At evening the lowest lux level is recorded at lower ground floor and highest of third floor.
- The highest ambient temperature recorded is 32 degree Celsius and lowest temperature is 23 degree Celsius.

COMPARATIVE ANALYSIS BETWEEN EAST-WEST SECTION ON DIFFERENT FLOORS:

INFERENCE: SECTION AA - GROUND FLOOR:
As sun rises from east and sets in west, point 2 (inside) 489 lux located on the western side of the premises receives direct sunlight at 11 a.m. And point 5 (inside) 619 lux and 4 (inside) 589 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 60 lux.

INFERENCE: SECTION AA - 3RD FLOOR:
Point 2 (inside) 432.33 lux located on the eastern side of the premises receives direct sunlight at 11 a.m. And point 5 (inside) 573 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 143 lux.

INFERENCE: SECTION BB - GROUND FLOOR:
As sun rises from east and sets in west, point 14 (outside) 13 lux located on the eastern side of the premises receives direct sunlight at 11 a.m. And point 7 (inside) 29.3 lux and 19 (inside) 14 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 5 lux.

INFERENCE: SECTION BB - 3RD FLOOR:
As sun rises from east and sets in west, point 14 (outside) 45.6 lux located on the eastern side of the premises receives direct sunlight at 11 a.m. And point 7 (inside) 105 lux and 19 (inside) 61 lux located on the western side receives indirect sunlight as shown in fig a and fig b respectively. At 3 p.m. the vice versa situation is observed, point 4 is of a higher lux level as compared to point 2 and the difference between them is approximately 42 lux.

ANALYSIS OF AA:

POINT NO.	11 AM	3 PM
1	100	100
2	489	100
3	100	100
4	100	619
5	100	589
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	13	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100

ANALYSIS OF BB:

POINT NO.	11 AM	3 PM
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100

ANALYSIS OF CC:

POINT NO.	11 AM	3 PM
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	13	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100

BARC 1006 ENVIRONMENTAL STUDIES - 5



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Academic Year: 2022-23 Year: Fifth Yr. B.Arch. (Sem-10)

Name of Course: BARP 1011 Design Dissertation - 2

SITE ANALYSIS

SITE LOCATION: BRC G-Block, Mumbai

2000



BRC's use is primarily residential, as it still an open land. A large transformation occurred in this area that was nothing but mostly land, now known as the residential complex.

2023



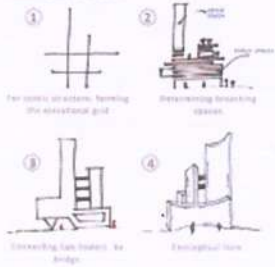
As the site located in BRC, Mumbai, its development clearly gives an idea of how the land transformation took place and how the BRC's BRC office, BRC's BRC office, etc. these things will also have an effect on the site.

ACTIVITY MAPPING



Legend: Residential, Commercial, Recreational ground, Park and garden, Water body, Site, Railway line, Primary Road, Secondary Road, Station and metro station, Landmark.

FORM DEVELOPMENT



SITE APPROACH



Future changes in land use



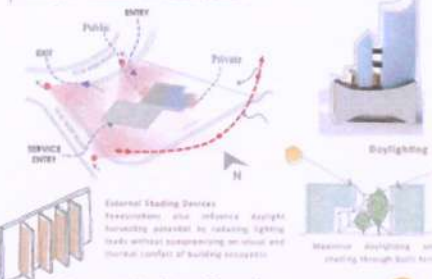
Transformation that took place from 2000 till present day

Daylighting and shadow analysis

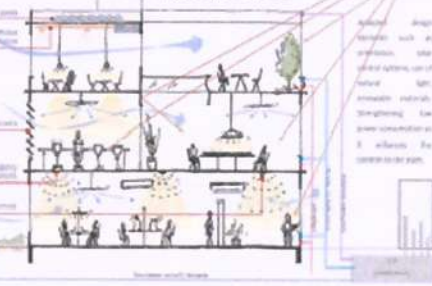


According to climate and shadow analysis, daylighting is required from East to South-west side.

Existing site condition with viewing points



Energy efficiency in commercial building



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SITE PLAN

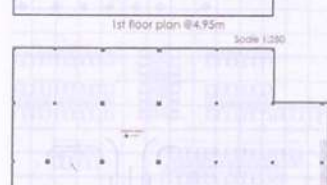


GROUND FLOOR PLAN

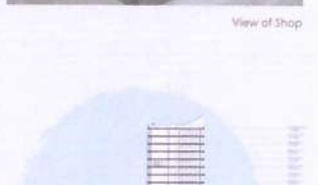


S: A19: 1:750
ALL DIMENSIONS ARE IN METERS

FLOOR PLANS



VIEWS AND SECTION



MULTI-UTILITY CENTER

FIFTH YEAR ARCH. | SEM X | DESIGN DISSERTATION 2 | VIVA SCHOOL OF ARCHITECTURE | AKSHATA S. SAWE | 41



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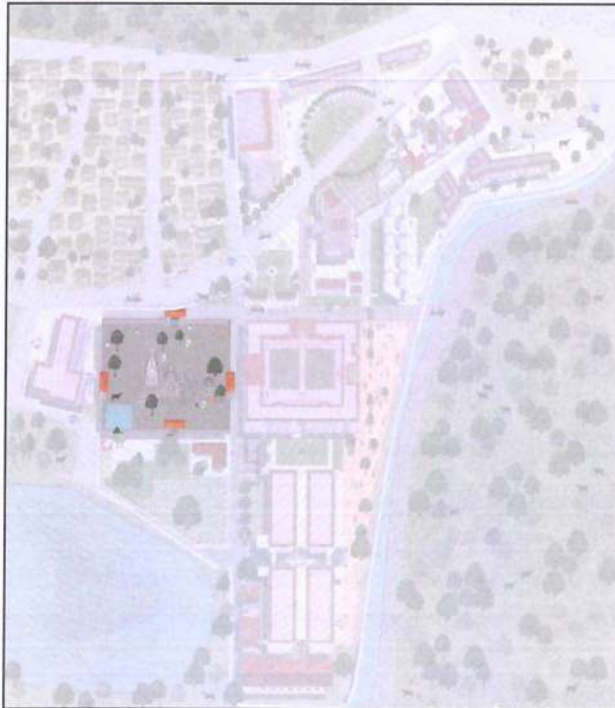
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LIFE DEATH AND DEVOTION URBAN RENEWAL OF TRIAMBAKESHWAR TEMPLE PRECINCT

The design and development of the temple precinct is a result of the urban regeneration that has been undertaken and requires a holistic and integrated approach. The design and development of the temple precinct is a result of the urban regeneration that has been undertaken and requires a holistic and integrated approach. The design and development of the temple precinct is a result of the urban regeneration that has been undertaken and requires a holistic and integrated approach.

OMKAR JAYESH KARVEER | 30 FIFTH YEAR B.Arch. SEM-X DESIGN DISSERTATION-I | VIVA SCHOOL OF ARCHITECTURE

The presentation board is divided into several sections:

- INTRODUCTION:** Explains the project's context and objectives.
- WHY TRIAMBAKESHWAR?:** Discusses the historical and cultural significance of the site.
- EVOLUTION OF TOWN AND MAPPING OF CHANGE IN LAND USE:** Shows maps illustrating the growth and changes in the area over time.
- LOCATION:** Provides a geographical context of the site.
- URBAN MAPPINGS:** Includes various maps such as site analysis, zoning, and urban form.
- SITE ANALYSIS:** Analyzes the site's characteristics, including topography and existing structures.
- CONCEPT AND DESIGN APPROACH:** Outlines the design philosophy and key strategies.
- ZONING-DIVISION OF SPACES:** Shows how the site is divided into different functional zones.
- SUSTAINABLE APPROACH:** Details the eco-friendly and socially responsible design choices.
- DESIGN:** Shows the final architectural plans and elevations.
- USER ANALYSIS:** Identifies the needs and behaviors of the people who will use the space.
- FESTIVAL AND EVENTS ON SITES:** Illustrates how the design accommodates local traditions and events.
- ACTIVITIES ANALYSIS AROUND THE PRECINCT:** Shows the integration of the precinct with the surrounding urban fabric.

LIFE DEATH AND DEVOTION
URBAN RENEWAL OF TRIAMBAKESHWAR TEMPLE PRECINCT

OMKAR JAYESH KARVEER | 30 FIFTH YEAR B.Arch. SEM-X DESIGN DISSERTATION-I | VIVA SCHOOL OF ARCHITECTURE



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Shri. Hitendra V. Thakur
President

Ms. Aparna P. Thakur
Secretary

Prof. Chakor A. Mehta
Principal



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Principal
VIVA School of Architecture



Vishnu Waman Thakur Charitable Trust's

VIVA SCHOOL OF ARCHITECTURE

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DEPTH CALCULATION (SCALE: 1:500)

1. ROAD	100.00%
2. PLAZA	100.00%
3. DRIVE	100.00%
4. PARK	100.00%
5. CANAL	100.00%
6. RIVER	100.00%
7. LAKE	100.00%
8. TERRACE	100.00%
9. BALCONY	100.00%
10. ROOF	100.00%
11. GROUND	100.00%
12. BASE	100.00%
13. TOTAL	100.00%

CONCEPT OF ORGANIC WASTE MANAGEMENT

- 01
- 02
- 03
- 04
- 05

LEGEND

- WASTE COLLECTION POINT
- WASTE COLLECTION POINTS

INTEGRATED SERVICE FLOOR PLAN (SCALE: 1:500)

DETAIL A

DETAIL B

PLAN

SECTION

NOTE: ALL DIMENSIONS IN METERS

LIFE DEATH AND DEVOTION
URBAN RENEWAL OF TRIAMBAKESHWAR TEMPLE PRECINCT

OMKAR JAYESH KAEVEER
11TH YEAR B.Arch. SEM-X
ARCH. REP. & DETAILING - X



Prof. Chakor A. Mehta
Principal
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