

ACADEMIC

BOOKLET 2020-21

INDEX -

1.	Introduction	3
2.	Code of Conduct & Scheme of Marks	4
3.	Teaching Plans	5-14
4.	Thesis Schedule	15
5.	Marks Distribution for Project	16
6.	Panellist	17
7.	Structure of Report	18
8.	Guidelines for preparation of Report	19
9.	Submission Requirement	20
10.	Checklist of Drawings	21
11.	Timetable	22
12.	Review Sheets	23-27
13.	Appendix	28 -30

YEAR INCHARGE

Ar.PriyankaSambare (AssistantProfessor)

CO-ORDINATORS

- 1. Ar. Namrata Gaurkhede SectionA
- 2. Ar. Priyanka Sambare- SectionB
- 3. Ar. IshaPawar– SectionC

SMMCA:Vision

The vision limits to the present situation or at best for the near future. We should mention that we equip students to venture into the future.

Our vision is to reach global standards by deliberate modernization without losing the essential characteristics of our tradition. Being a women's college, we find it more pertinent to imbibe both these qualities very consciously in our girl students.

We wish to produce socially responsible architects with sensitivity towards social issues of immediate contexts, national concerns and global effects and positive and creative approach towards life.

Mission

To create an educational environment in which students are prepared to meet the challenges of a fast developing and changing world.

Hence the students are equipped with:

- Up to date knowledge
- Analytical and practical skills
- Creative approach towards everything that they undertake
- Attitude to be sensitive towards national, social and environmental issues

While addressing the global challenges we believe strongly in anchoring ourselves to the immediate context. We accept gratefully our role in preserving and enhancing Vidarbha and Nagpur- the place, its people and architecture.

Core Values

Integrity

- Creativity
- Innovation

- DiscoveryDiscipline
- CollaborationExcellence
- Respect
 - Diversity

Objectives

- To develop among students academic and Professional competency.
- To foster value-based, creative and critical learning
- To hone skills of living in a technological, globalized and ecologically aware environment
- To develop culture of commitment to excellence

Code of Conduct

Punctuality- It is mandatory for students to be punctual in the college and shall have to be present every day at 8.45 a.m. Every student is expected to attend the morning assembly. Attendance of the students will be taken at the time of assembly by respective class co-coordinators.

The attendance will also be taken at the beginning of the classes in the afternoon after lunch break. The record of attendance shall be displayed at the end of each month for students. Every student is expected to go through the displayed attendance and request rectification of the record within 8 days by talking to the class teacher if her attendance has been wrongly recorded.

In case of absentism, student shall bring a letter of absence duly signed by her parents/guardian. However, a student having less than 75% attendance will face disciplinary action and will not be permitted to appear for University Examination.

Dress Code – Salwar suit/ Jeans /Leggings with long Kurti.

Extracurricular activities- Credits are allotted to each activity and students are required to attend the activities to earn these credits.

Every student has to attend the programmes organized by the college from time to time.

Attendance for programme of 26th January and of 15th August is mandatory for every student and the dress code a white Salwar Suits/Leggings with Long Kurti.

Academic Performance

Submission schedule of all the subjects of a semester will be displayed at the beginning of the session. Students must follow the submission schedules given by respective subject teachers. No late submissions will be accepted after the scheduled date.

Midterm assessment

A midterm assessment will be conducted to assess the progress of a student. It is mandatory for all the students to appear for this assessment.

Student Council

The Student Council will be formulated for the main purpose of empowering the students. Having a formal setup of a Student Council enables students to organize and conduct certain activities, co- ordinate publications like 'Her Space', and properly convey any concerns students may have to the college administration and teaching faculty.

The student council also takes the lead in organizing and coordinating many events in the academic year – like daily assembly, Republic day and Independence Day celebrations, NASA, Teachers Day, Archiventure, Women's day celebration and all other major events conducted by the college. The structure of the council is such that students from all years find representation in it. The team is headed by fourth year students with representative from first, second and third year. Third year students take over the reins when fourth year students go for their training in the 8th semester. Final year students act as mentors to thecouncil.

The organization set up for student council will comprise of – President Vice-president Secretary Vice-SecretaryTreasurer In addition, there are Class Representatives from first and second year – one representative from each of the three sections in a year.

Sr. Sub.						Loa	d Per W	eek				Credits	Paper/	Dentition	Max.	Total	Min.		
No.	Sub. Code	Sub. Name	Category	Board	L	т	D	S/P	Total	L	т	D	S/P	Total	Sessional	Duration in Hours	Max. Marks	Marks	Pass Marks
1	10S-A-1	Project	DC	AR	2	0	0	16	18	2	0	0	16	18	Sessional		350	350	300
															Viva-voce		250	250	
2	10S-A-2	Construction Technology &	DC	AR.	1	0	3	0	4	1	0	3	0	4	Sessional		100	100	50
		Materials VIII													Paper	3	100	100	40
3	10S-A-3	Professional Practice	DC	AR	2	0	2	0	4	2	0	2	0	4	Sessional		30	100	40
		· · · ·			d a							a - 6			Paper	3	70	100	HV
4	10S-AA-1	Elective a	DE	AR	2	0	2	0	4	2	0	2	0	4	Sessional		100	100	50
	1	TOTAL		-	7	0	7	16	30	7	0	7	16	30		· · · · · · · · · · · · · · · · · · ·	1000	1000	480

Scheme of Examination

CONSTRUCTION TECHNOLOGY AND MATERIALS VIII - TEACHING PROGRAMME 20-

21

5th year - 10th Semester (Even Semester)

TEACHERS INCHARGE:

Ar. Sujata Godbole, Ar. Rashmi Tijare, Ar. Priyanka Sambare, Ar. Medha Pophale, Ar. Namrata Gaurkhede, Ar. Isha Pawar

Co1: To understand the construction techniques to cover large span with geometry and material using advance techniques.

C02: To make students aware about basic principal geometry of tensile structure with materials used.

CO3: To make student understand the different structural system used for the high rise building. With focus on geometry in form of building.

CO4: To understand the structural system and architectural design consideration in Earthquake.

CO5: To understand the defects in buildings

CO6: To make students aware of various techniques used for additions & alterations.

UNIT	ТОРІС	OBJECTIVE	TIME REQUIRED	TEACHING METHODS	EXPECTED OUTPUTS
I	General study of construction techniques to cover large spans using short length timber and laminated timber material, beams # Lamella roofing, # Portal frames, # Solid beams and web beams	To make student aware of geometry, material & advance techniques	15 Dec,17 ,4th Jan, Feb 2021	Online Teaching	Sketches in sketchbook
II	General study of # Suspension structures, # Membrane structure # Pneumatic structures	To make student aware of Geometry, material&advance techniques	7th, 11th, 14th, 15th Jan 2020	Interactive leaning & visit to site	Tutorial on Suspension, Membrane and Pneumatic structures
111	High-rise buildings # Foundations #Structural Systems #Architectural Design Considerations	To make students understand form & material with advance techniques	18th,21 st 25th, Jan 2021	PPT & Videos	rise buildings and students Presentations
IV	# Earthquakes and its effects on buildings Earthquake Zones in India Architectural Design Considerations and Construction Detailing	To make students aware of design considerations for earthquake resistant buildings.	28thJan, 1stFeb ,4 th Feb 2021	PPt& videos	Sketches in sketchbook
V	 # Study of causes of defects in buildings such as cracks, seepage, deflection etc. and their remedies. # General idea of non- destructive test such as Rebound test, Penetration 	To make student understand defects in buildings & finding the appropriate remedies.	8th, 11th Feb, 15thFeb, 2021	PPt& videos.	Assignment based on various types of defects and their remedies

	test, etc. # Rehabilitation methods, Grouting, Gunting, Jacketing, etc. # General study of special chemicals used in construction and repairing works				
VI	existing buildings put to new use.	aware of various	Mar 2021	PPt& videos	Sketches in sketchbook
ATTE ND ANCE	SUBJECT CONTENTS/ SESSIONAL EXAM/ CLASS TEST	PLATES/MODELS / SKETC HBOOK/TUTORIA LS			TOTAL
20	55	25			100

PROFESSIONAL PRACTICE - TEACHING PROGRAMME 2020-2021

5th year - 10th Semester (Even Semester) TEACHERS INCHARGE: Ar. Sriram Marathe Ar. Namrata Gaurkhede

UNIT	ΤΟΡΙϹ	DATES	TEACHING METHODS	EXPECTED OUTPUTS
1	Nature of profession, difference between trade, business and profession, taking instructions from the client, its interpretation, design process and its stages. Role of professional society, Professional code of conduct, Ethical ways of getting architectural commission, Importance of conduct of architectural competitions, architectural copy right.	6th Dec 2020; 8th and 15th Jan 2021	PPT Presentations	Tutorials
2	Responsibilities and Liabilities of an architect towards the client. Scale and basis of fees. Professional charges of various jobs. Stages of Architectural design and the specific task in each of such stage.	22nd, 29th Jan and one more slot in last week of Jan	PPT Presentations	Tutorials
3	 Architects Office, Organisation and Administration., Office set up, Correspondence, filing, preparation of drawing, standardization and documentation Professional partnership, various options, advantages. Partnership deal, responsibilities and liabilities of partners. Provisions of Professional Tax, Service Tax, Income Tax rulels. 	5th Feb 2021 and one more slot in in the same week	PPT Presentations	Tutorials
4	Tender, types of tender, tender document, tender notice, procedure for opening and selection of tender, analysis bids, comparative statement, report to owner, work order.	12th, xx, 19th, xx Feb 2021.	PPT Presentations	Tutorials
5	Contract, type of contract, contract document, Detailed knowledge of various condition of contract as published by Indian Institute of Architects with special reference to responsibilities and liabilities of architect, contractor and the client.	26th, xx Feb 2021 and 5th, xx March	PPT Presentations	Tutorials
6	Architects Act 1972, its effects on profession and education. General information and introduction to various acts and laws such as land acquisition Act, urban land ceiling Act. Building bye-laws, Sale deed procedure, owner ship documents.	12th, xx March 2021.	PPT Presentations	Tutorials

SUBJECT CONTENTS/SESSIONAL EXAM/SURPRISE EXAM	ATTENDANCE	TOTAL
20	10	30

Teaching Framework 2020-21: Elective: 10thsemester electives are as follows:

- 1. Campus Planning
- 2. Housing
- 3. High TechArchitecture

Objective: To integrate the elective in design. Enable students to take design decision and enhance design quality.

Selection of Elective:

Students will select one of the above-mentioned subjects based on their design topic. The selection of the elective will be done after the first project jury. A panel will be displayed wherein the student will enter her finalized thesis title and the elective subject. Thus, three elective groups will be formulated. Each elective will be allotted with elective-coordination faculty. The role of the coordinator will be to maintain attendance record during the workshop.

The coordinator will identify an expert for their elective and formulate the structure of the workshop. The student will have to appear for sessional examination.

HOUSING

TEACHERS INCHARGE: Ar. Rashmi Tijare Ar. Anuradha Sachdeva

CO1 To understand the Housing and its condition in India

CO2 To understand the financial feasibility concepts and market trends in real estate

development

CO3 To integrate various planning (housing) concepts and enhance their thesis Site Plan

DATE/ WEEK	TOPIC	OBJECTIVE	METHODOLOGY	EXPECTED OUTPUT
CO1 To under	stand the Housing and its conditi	on in India		
22 nd & 23 rd Dec 2020	Introduction to the Topic: Introducing various terminologies like Affordable housing, Subsidized housing, Community ownership, Social Housing, Social inclusion, Legislations, Real estate Development, Housing stock etc. Overview of housing scenario in India, types of housing, demand and shortage	To understand the terminologies related to Housing and also to understand the situation of housing in India	Lecture & Interaction Detailed List of terminologies will be given by the teacher	Detailed list of terminologies to be read and understood
5 th & 6 th Jan 2021	Introduction to Real Estate Development	To familiarise the students to real- estate market mechanisms and their implications on the processes of city development	Lecture	-
	Concepts of real estate analysis, Mapping supply to understand markets Property trends, factors affecting real estate trends	To understand the financial feasibility concepts and market trends in real estate development	Lecture & Demonstration	Project Feasibility Report
	stand the financial feasibility con : Financial feasibility Analysis	cepts and market trend		opment
5 th &6 th Jan 2021	Stage I: Site and its physical attributes	Select a site of approx. 10 acres and justify its selection, understanding the site surroundings and the nearby land use, connectivity, major land marks 1. Surrounding Landuse 2. Residential Development (3 to 4 Projects in the vicinity) 3. Product Mix	Input in the form of ppt	PPT

		4. Type of housing for example		
		2BHK, 3BHK etc 5. Carpet Area of		
		flat		
		/House&Super built up of Flat/		
		House		
		6. No. Of units, Loading Factor		
Stage II:	Detailed Area Statement	Detailed Area	Demo in excel	Excel Sheet
12 th & 13 th Jan 2021		statement to be calculated with a study of existing DCRs of the chosen location. Working out Saleable & Non- Saleable Areas.	Sheet	
Stage III: 19 th & 20 st Jan 2021	Market Analysis	Study the surrounding area and arrive at a suitable market analysis by understanding the trends of upcoming projects nearby.	Demo in excel Sheet	PPT
-		Arriving at a Product mix from Market Analysis		
Stage IV: 26 th & 27 th Jan 2021	Understanding Various Costs	Understanding and getting Market Trends of land costs, Construction Cost, Financial Costs (Banking Costs), revenues and work out the overall cost of the Project	Demo in excel Sheet	Excel Sheet
Stage V:26 th & 27 th Jan 2021	Understanding Net Profit	Understanding Net Profit of the Project	Demo in excel Sheet	Excel Sheet
CO 3: To integ Assignment I	grate various planning (housing)	concepts and enhance	their thesis Site Plar	۱ -
Assignment II 2 nd to 24 th Feb 2021	Enhancement in thesis Project	To integrate various planning (housing) concepts and enhance their thesis Site Plan	Discussions & demonstrations	Final Site Plan
	Final Submission of	Assignment I&II2 nd Ma	arch 2020	1

Evaluation Criteria	Assignment I	Assignment II	Attendance	Sessional
Total: 100 marks	30	30	20	20

CAMPUS PLANNING ELECTIVE (XTH SEM) 2020-2021

Teacher In charge: Ar. Anuradha Tikkas, Ar. Madhuri Gehani

AIM:

- Understanding the principles of Campus Planning
- Implementing principles to achieve form, function, economy, architectural expression, climate responsive and aesthetic value in the design.
- To help create a physical as well as a balanced environment which will flourish and nourish thought processes and ideas.
- To create a perfect balance of campus and residence for a more increased aesthetics and creative sensitivity.

INTENT:

- A well-designed campus environment contributes significantly to the learning, working and social, cultural experiences for users and visitors.
- An attractive campus is its positive impact in recruitment and also creating positive energy.
- It enhances and recharges the microclimate.
- Inspirational work spaces are evolved with a positive work environment.

GUIDELINES TO STUDY THE PRINCIPLES:

- Site Layout (Zoning, Orientation, Circulation, connectivity, segregation etc)
- Form (Scale, proportion, massing)
- Function (usage of spaces, flexibility, convenience)
- Architectural expression- (exterior built spaces, façade treatment, interrelationship)
- Interior Detailing (materials, specifications and ambience)

CASE STUDIES:

- The KFI School Krishnamurti foundation
- Srishti Institute of Art, Design and Technology, Bangalore
- Amity University, Noida
- School of Planning & Architecture, Delhi
- Otis College of Art & Design
- Titan Integrity Campus Bangalore
- Nirma University
- Pearl Academy, Jaipur
- Guru Gobind Singh Indraprastha University East Campus New Delhi

Campus Planning shall be addressed to the students and taught to them from December 2020 to March 2021.

SMONTH	TOPICS	OUTPUT
15 th dec 2020	Discussion of thesis topics in relation with campus planning	Refining thesis topics
16 th dec 2020	Aim & Intent, Division of students in groups, Selection of campuses for study	Origin of Campuses, design principles, guidelines, study & implementation
22 nd dec 2020	Principles of Campus	design principles, guidelines
23 rd dec 2020	Brief to campus designs	Implementation of the same in their debates
29 th dec 2020	Study of site layout, expressions, etc.	Implementation of the same in their debates
5 th Jan 2021	Circulation space, pathways, primary walks, open spaces.	Implementation of the same in their debates
6 th Jan 2021	Built formframework, climatic considerations, orientation and placement	Implementation of the same in their debates
12 th jan 2021	Function (usage of spaces, flexibility, convenience), Interior detailing	Implementation of the same in their debate
13 th jan 2021	Function (usage of spaces, flexibility, convenience), Interior detailing	Implementation of the same in their debate
19 th jan 2021	IIT kanpur	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
20 th Jan 2021	The Fuzhou Strait Culture & Art Centre	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
27 th Jan 2021	Webinar of Ar. Niti Shah	
2 nd Feb 2021	SelaQui International School,deheradun	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
3 th Feb 2021	India Habitat Center	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
9 th Feb 2021	NIFT Delhi	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
10 th Feb 2021	BrahmaKumari, Mt.Abu	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
16 th Feb 2021	Auroville Visitor's Centre	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
17 th Feb 2021	DELLA RESORT	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing

		1
23 th Feb 2021	SPA Vijaywada, Andhrapradesh.	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
24 th Feb 2021	Bharat Bhawan	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
2 nd March 2021	Laboratory for conservation of endangered species, Hyderabad	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
3 rd Mar 2021	Call for individual plans and implementation of the inferences	Refining thesis as per given feedback
9 th March 2021	Call for individual plans and implementation of the inferences	Refining thesis as per given feedback
16th Mar 2021	Nirma University	spaces, Facade treatment, materials, Detailing
11 th Feb 2021	Debate amongst 4students Pearl Academy,Jaipur	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
13 th Feb 2021	Debate amongst 4students Guru Gobind Singh Indraprastha	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
18 th Feb 2021	Debate amongst 4students Amity University,Noida	Zoning, circulation, Function, form, Quality of spaces, Facade treatment, materials, Detailing
20 th Feb 2021	Call for individual plans and implementation of the inferences	Refining thesis as per given feedback
3 rd Mar 2021	Call for individual plans and implementation of the inferences	Refining thesis as per given feedback
5 th March 2021	Call for individual plans and implementation of the inferences	Refining thesis as per given feedback
11 th Mar 2021	DAY 1 WORKSHOP WITH AR. DAY 2ROUGH SKETCHES OF THE CONCEPT & PLANS	
17 th Mar 2021	Implementation of ideas of the workshop and refining the plans	Refining thesis as per given feedback
19 th Mar 2021	Implementation of ideas of the workshop and refining the plans	Refining thesis as per given feedback
26 th Mar 2021	Display of the plans	

•

Elective: HIGH TECH ARCHITECTURE

Teacher In charge: Ar. Sujata Godbole, Ar. Priyanka Sambare

Introduction

Architectural style that emerged in the 1970's incorporating elements of high tech industry & technology into building design. It is a response to growing disillusionment with modern architecture. High tech architecture also known as late modernism or Structural Expressionism.

High tech architecture aims to achieve a new industrial aesthetic spurred on by the renewed faith in the progression of technology. The building is like a machine.

In this elective, there will be five major elements which defines the High Tech Architecture

1.Materials: Various materials used for the construction of the same.

- 2. Symbiosis of technology and architecture
- 3. The structure that hold the building up.
- 4. The ecology of building, the way in which building effect the public.
- 5. The services which allows it to work

Along with all these elements it should be aesthetically appealing also. There are some

pioneer of High tech architecture:

Norman Foster, Richard Rogers, Nicholas Grimshaw, I.M.Pei, Renzo Piano

Study from the examples of the pioneer architects work will help the students in understanding the concept of it. They will be able to apply the knowledge gain through this elective in their project and in future while practicing.

CO1 To understand the Evolution of Facades

CO2 To understand the Advancement in construction technology with respect to advance materials on designing of facades.

CO3: To apply the holistic knowledge gained in respective thesis project

Weeks	Topics	Assignments
22 nd & 23 rd Dec 2021	Introduction to High tech Architecture	
5 th ,6 th 19 th ,20 Jan 2021	Facades and its Type and Design Consideration of Facades	To present with examples Evolution of Façade from Historic period to Modern era. output can be in the form of sheets or PPT presentation.
27 th Jan ,2 nd Feb	Design of Facades: Studio work	To Design Façade for Commercial building. Submission
3 Feb 2021	Advancement in ConstructionTechnology	
9 th Feb 2021	Guest lecture by experts on Advancement in ConstructionTechnology	

17 ,23 Feb	Discussion on Advance materials and its Application	
24 th Feb 2021	Guest lecture by experts on Advancement in Building Services	
2,3,9,10 th March 2021	Discussion on integration of Advance Construction Technology, services and materials in Design	Application of Knowledge gain In subject to thesis (in design of Building). Output in the form of Sheets which will include Facade design, Construction techniques and Services.

Evaluation Criteria	Assignment I	Assignment II	Attendance	Sessional
Total: 100 marks	30	30	20	20

THESIS 2020-2021

TEACHERS INCHARGE: Prof. S.R. Marathe, Prof. Sujata Godbole & Prof. Priyanka Sambare

Below mentioned are the dates for Reviews for Final Year (Tenth Semester Students) and Schedule of Reviews for Project

Thesis Schedule 2020-2021 will be floated soon

	PANEL 1	PANEL 2
SR.NO	TEACHER NAME	TEACHER NAME
1	Prof. S.R. Marathe	Prof. Vijay Munshi
2	Ar.Anuradha Bhute	Ar.Seema Borole
3	Ar.Rashmi Tijare	Ms. Atula Patwardhan
4	Ar.Vaijayanti Yadav	Ar. Sneha Bodhankar
5	Ar.Madhuri Gehani	
	PANEL 3	PANEL 4
	TEACHER NAME	TEACHER NAME
1	Dr.Ujwala Chakradeo	Dr. Pratima Dhoke
2	Ar.IshaPawar	Ar. Poornima Deshpande
3	Ar.Anuradha Tikkas	Prof.SanjeevaniMohogaonkar
4	Ar.Tarika Dagadkar	Ar.Piyusha Rathore
5		Ar.Harpreet Saggu
	PANEL 5	PANEL 6
	TEACHER NAME	TEACHER NAME
1	Dr.SampadaPeshwe	Dr. Neeta Lambe
2	Ar AkanshaAgarwala	Ar.Sneha Mandekar
3	Prof.Vishwas Dikhole	Dr.Madhura Rathod
4	Ar.SamruddhiAmte	Ar.Rashmi Thakre
	PANEL 7	PANEL 8
	TEACHER NAME	TEACHER NAME
1	Ar.Sujata Godbole	Dr.Roopal Deshpande
2	Ar.KetkiTidke	Ar.ShobhanaTembhurnikar
3	Ar.MedhaPophale	Ar.Sarika Joshi
4	Ar.Nehal Maheshwari	Ar.Priyanka Sambre
5	Ar.Mrinmayee Tiwari	

Following are the panels for all Internal & External Presentations the List of panels is mentioned below.

Thesis In charge

Prof.S.R.Marathe

Prof.SujataGodbole

Ar. Priyanka Sambare

STRUCTURE OF THESIS REPORT

COVER PAGE DECLARATION CERTIFICATE ACKNOWLEDGEMENT ABSTRACT

LIST OF TABLES LIST OF FIGURES LIST OF IMAGES

CONTENTS: CHAPTER 1: INTRODUCTION BACKGROUND OFSTUDY INTRODUCTION TOTOPIC NEED OFSTUDY AIM, OBJECTIVES, SCOPE &LIMITATIONS METHODOLOGY (If there are any sub sections to a chapter section, a third degree of numbers will be added. For e.g. if there are further sections within Methodology, they will go as 1.5.1, 1.5.2, 1.5.3, so on so forth)

CHAPTER 2: LITERATURE REVIEW CHAPTER 3: PRECEDENT STUDY CHAPTER 4:

SITE ANALYSIS

CHAPTER 5: DESIGN DEVELOPEMENT DESIGNREQQUIREMENT CONCEPT

Chapter 6: ARCHITECTURAL DETAILING BIBLOGRAPHY

GUIDE LINES FOR PREPARATION OF REPORT

Heading Level 1 -MAIN TITLE OF THE CHAPTER. For e.g.

CHAPTER 1: INTRODUCTION

Text should be in ARIAL 18 pt. Bold

1.1. Sub heading – level 2 – fore.g. **1.1 BACKGROUND OF STUDY**

Text should be in ARIAL 14 pt. Bold

1.1.2 Sub heading – level 3 – for e.g.

Relevance ofStudy

Text should be in ARIAL 11 pt.Bold

All other Text should be in ARIAL 11pt. FIGURES:

Figures should be described appropriately in the text after referring it in the relevant text (Figure 1).Caption should be just below the figure text size 9 pt. Bold and write source.

TABLES :

Tables should be placed into the text just after referring to it in the text. They should be numbered as (*Table 1*) etc. The caption for a table should be written just above the table. Text size 9 pt. Bold.

REFERENCES (ARIAL 18pt.)

Other Text Size: 11 pt.ARIAL

References (sample)

Hyde, R. 2000 *Climate responsive design: a study of buildings in moderate and hot humid climates*, London: E and FN Spon

Olgyay, V., Olgyay, A. 1963 *Design with climate: bio-climatic approach to architectural regionalism*, New Jersey: Princeton University Press

Perera, D.C. and Bandara, H.M: 1988, *Title of the paper in Italic...... in* Name/s of Edtors (ed), title of the proceedings, Title of the conference, Association of the conference, City

Perera, D.C and Nammuni, H.Y: 2013, *Title of the paper In Italic*, Journal name, Publisher, City, page numbers of the paper

Smythe, J. S. (ed.): 1990, Title of the book, Publisher of the book, City

Web, B.: 2012, "*Title of the web article*". Available from: Open Source Repository - address of the web site (accessed 1October 2014).

Submission requirements for Pre-final & Final Thesis Review

- 1. Introduction (Aim,objectives,typology)
- 2. Concept & Design Evolution (Intellectual Proposition)
- 3. DesignProgram
- 4. Site selection, Regional Study, Site analysisincludes:
 - a) Regional LevelPlan
 - b) ContextualPlan
 - c) Site plan(scale:1:200)
- 5. ArchitecturalDetailing:
 - 1. Site plan with sciography(Scale-1:200)
 - 2. Building level plans (Scale -1:100)
 - 3. Sections with structural system and material specifications (scale -1:100)
 - 4. Elevations with sciography(Scale -1:100)
 - 5. Details of services (Water supply, sewage, storm water, HVAC, Firefighting, Rain water harvesting, Garbage disposal depending ontypology.)
 - 6. Views
 - 7. Models (Regional study model, site model, building levelmodel)
- 6. Report

CHECKLIST FOR DRAWINGS

- ✓ Show North in all plans and USE that in your planningprocess.
- ✓ Write scale of drawing especially inplans
- ✓ Show levels (including 0.00) in all floor plans and sections
- ✓ In all staircase plans show UP and DOWN positions, with proper signcontinuity
- ✓ Calculate properly the number of treads and risers in allstaircases.
- ✓ Show door and window positions
- ✓ Show projections of all fenestration details in plans and sections
- ✓ Write 'ENTRANCE or EXITS' where applicable
- ✓ Line thickness (intensity) for sectional and elevational lines to be different

 $\checkmark\,$ If using AutoCAD library for furniture or sanitary ware , remember to scale the units before placing it in rooms

✓ Check and re-check all floor plans of the same building for non-conformance- Eg;

column positions, toilets, projections, staircases, lifts, open spaces, courtyardsetc

✓ Provide for parapets in sections and in turn elevations

✓ Provide proper railings or parapets along corridors or open spaces or staircases, especially first floor upwards.

- ✓ Remember to name all spaces that you have designed especially inplan
- ✓ Specifications of ramps to be clearly mentioned eg. Length and ratio ofslope
- ✓ Porch size and its supporting structure if any should be clearly shown in dotted line on

GF plan and roof terraces if any on subsequent floors

✓ Preferably a roof/terrace floor plan to be shown for better understanding of the roofing details

✓ Proper ducts to be provided to all toilets to cover all plumbing and ventilators

✓ Don't create unnecessary niches or projections in the building lines unless it is a part of your design concept.

✓ Any building should be lockable at night. It cannot be porous. Plan doors at every entry and exit/points

- ✓ Select sectional lines through areas so as to show different levels either in floors orroofs
- ✓ Remember to mention size of rooms /facilitation
- ✓ Remember to mention width of passages
- ✓ Remember to show outer dimensions of the building
- ✓ In site plan show road geometry / parking layout
- ✓ Sections dimensions and materials
- ✓ Font size Select appropriate font size according to hierarchy / importance of text
- ✓ Formatting

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT -X SEM. 2020-2021

<u>REVIEW – I</u>

Name of the Student:
Topic:
Thrust Area:
Name of Guide:
Jury's Comment:

- ٠
- •

- •

Guide'sComment:-_____

- ٠
- •
- •

Grade

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT -X SEM. 2020-2021

<u>REVIEW – II</u>

Name oftheStudent:	
Topic:	
ThrustArea:	
Name of Guide:	
Jury'sComment:	
Guide'sComment:	
• •	

Grade

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT -X SEM. 2020-2021

<u>REVIEW – III</u>

Name oftheStudent:	
Торіс:	
ThrustArea:	
Name of Guide:	
hum de Ocumentation	
Jury'sComment:	
•	
•	
•	
Guide'sComment:	
•	
•	

Grade

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT -X SEM. 2020-2021

<u>REVIEW – IV</u>

Name oftheStudent:
Горіс:
ThrustArea:
Name of Guide:
Jury'sComment:
•
•
•
•
Guide'sComment:
•
•
•

Grade

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT -X SEM. 2020-2021

<u>REVIEW – VI</u>

Name oftheStudent:
Topic:
ThrustArea:
Name of Guide:
Jury'sComment:

٠

- •

Guide'sComment:-_____

- ٠
- •
- •

Grade

APPENDIX

These suggestions are given to encourage better presentation of the thesis. The thesis drawings should look like design drawing and not like the working drawings. For help see architects published designs in books and magazines.

The detailing in the second option may look like the working drawings.

Site selection and Analysis

After finalising the topic, the site shall be selected the following considerations:150

- The site shall be in context with the topicfinalised.
- It shall be visited by the student and guide together (if in the samecity)
- The details of the site shall be procured by from the local authorities, its land use, current status and proposed status shall be verified. The google maps can become reliable, if the problem of uncooperative authorities persists.
- While visiting the site, the following points shall be carefullynoted:
- Actual measurement of the site
- o Capitalization on the strengths of the site (views to natural elements-water bodies, hills,etc)
- o North
- Land use and zoning
- Services (Water/drainage/sewer/electricsupply)
- Existing trees and vegetation
- Gradient/slope of thesite
- Traffic & transportationstatus
- o Surrounding context (buildings, rules, historical, socio-cultural/economic/politicalprofile)
- A brief study of the important structures near thesite.
- Microclimate of thesite
- The site study shall be schematically presented, with sketches depicting the site strength and weakness. (Write up shall be minimal and photo pasting shall also be minimum) Roads, north, site services, trees, surrounding context, etc. shall be clearlyshown.
- The design shall start with framing of design program me along with clarification of limitations of thetopic.
- The activities and the tentative areas shall be designed, based onfacilitation.
- The zoning of activities shall be done and options also shall be made to ensure the best one is workedupon.
- During zoning, it shall be decided whether the thrust shall be given to parameters of design (materials, climate, form, massing, and elements/principals of design). The design shall be pursued in that regard. At least three to four design options shall be made and evaluated. On evaluation further course should be decided.
- The design shall have the following sheetsincorporated:

Site Analysis (As per the above given checklist)

- Site sections (min two, on both the axis, explaining the contours, gradient, road level, water level,etc)
- Site elevation (min two, showing the surrounding context, existing context,etc)

Detailed Site Plan (Scale-which enables easy reading from a comfortable distance

- Existing approach road (width, name, approach, direction)
- Proposed hierarchy of roads, showing defined entry and exits (width, approach, direction)
- Proposed pathways (pedestrian, cycle, 2-w), hatch-denoting the material used in pathway to proper scale, colour and appropriate use of lineweight.

 Existing and proposed trees and vegetation (use of appropriate colour and line weight. Keeping in mind the climate of thesite)

- Existing and proposed site services (drainage, water supply, electrical, fire tanks, sump, water reservoir, cooling services,etc.)
- Proposed building blocks with use of appropriate line weight, sciography, colour,etc.
- Legends showing proposed activities and spaces.
- Site section and site elevation to same scale as that of siteplan.

Detailed floor plans (scale-1:100)

• Basement plan, if any, denoting parking and its detailing of lanes, width, manoeuvringof cars along with structural grid (column position, sectional details, specifying beam depth, floorheights)

Ground floorplan

- Entry from main gate to the building to be clearlyshown
- The main entry should always be related to the main road, which leads inside the campus and the various zones it leadsto.
- Structural grid, walls shall be made bold and provided with wallhatch
- Doors, windows, shading devices, openings, large openings, semi-open gates, etc. needs to be shown as per variouslines.
- Furniture facilitation (light lineweight)
- Toilet, balcony, level areas-drops to be shown for understanding oflevels
- Levels should be written with respects to road level or groundlevel,
- Passage, lobby or balconywidths
- Staircase, lift detailing should be done with appropriate arrows, lift car,etc.
- Courtyards, open spaces should be hatched and given app. Scale and colour.
- The plan shall be labelled at the bottom specifying the level of floor plan and itsscale.
- The elevation of the floor plan shall be placed above the plan and the section can be shown at the bottom of the plan.
- The section line should be clearly shown in the plan with bold lineweight.
- Any extension or floor at floor shall be shown in dashedline.
- The plan shall be rendered showing trees, landscape elements,etc.
- Any material or technology which has been used for aestheticalpurpose.

• All other floor plans(scale-1:100)

- Any reduction in first floor level shall be shown at first floor with dashed or dottedline.
- Other requirements shall be similar as that of ground floorplan.
- Any cut-outs or roof overhangs shall be shown(dashed)

• Sections (max 4: scale-1:100) THESE ARE MOSTIMPORTANT

- Showing level differences, space relationship, scale and proportion, structural detailing, heights at every level, overhangs,etc.
- The services hoisted at topmost floor (OHT, solarpanels)
- \circ The detailing of roofing and the material used their connection and joineries, etc.

• Elevations (all sides:scale-1:100)

- The elevation features which could render it iconic, expressive and a landmark have to be shown in elevations.
- The material detailing, roof detailsetc.
- All the levels have to be clearly marked with respect to groundlevel.
- Rendering, trees, human figures, etc. can beshown

- Any one detail of either of interior of exterior (in the form of views, sectional details, elevation)
- Details, views of sections which explain any especially designed space, landmark, landscape feature, lavational façade,etc.
- о
- Views & model (same as site planscale)
- The site plan details should complement themodel
- o Model should be detailed out with respect to contours, landscape, levels,façade
- All the sketch models should be photographed and used to demonstrate the evolution ofdesign

Suggested reading:

- Dr Pramod Shinde, Methodology of research and issues in Education, 2008, Surabhi Education society, S.V. College of Architecture, Hyderabad.
- O. R. Krishnaswami and M. Ranganatham, Methodology of research in Social Sciences, 2009, Himalaya Publishing House, Mumbai.
- Linda Groat and David Wang, Architectural Research Methods, 2002, John Wiley and Sons, NewYork.
- Kothari, Researchmethodology
- Extracts of inputs by Dr. Ananth Krishna in STTP on "Research in Architecture " at VNIT, Nagpur, 2009.
- "A Catholic Approach to Organizing what Urban Designers Should Know" by Anne VernezMoudonin "Designing critical Readings in Urban Design" ed. By Cuthbert A. R., Blackwell Publishers Pvt. Ltd, 2003)
- Ar. Amos Rapoport, arch. R Comport.\ Arch. &Behaviour, Vol. 8, no.1, p.93-102(1992)

.....