



WES
SMT. MANORAMABAI MUNDLE
COLLEGE OF ARCHITECTURE

FINAL YEAR

PROFESSIONAL PRACTICE

PROJECT

ELECTIVES

CONSTRUCTION TECHNOLOGY
AND MATERIALS VIII

ACADEMIC BOOKLET
2021-22

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YEAR INCHARGE

Ar.Poornima Deshpande (AssistantProfessor)

CO-ORDINATORS

1. Ar. Namrata Gaurkhede – Section A
2. Ar. Poornima Deshpande– Section B
3. Ar. Samruddhi Amte– Section C

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 |
| • Discovery | • Collaboration | • Respect |
| • Discipline | • Excellence | • 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, coordinate 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 the council.

The organization set up for student council will comprise of – President
Vice-president Secretary Vice-Secretary Treasurer

In addition, there are Class Representatives from first and second year – one representative from each of the three sections in a year.

Scheme of Examination

Semester - 10

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

CONSTRUCTION TECHNOLOGY AND MATERIALS VIII - TEACHING PROGRAMME 21-22

5th year - 10th Semester (Even Semester)

TEACHERS INCHARGE:

Ar. Sujata Godbole, Ar. Rashmi Tijare, Ar.Poornima Deshpande, Ar.Namrata Gaurkhede,
Ar.Samruddhi Amte

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

CO2: 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	TOPIC	OBJECTIVE	TIME REQUIRED	TEACHING METHODS	EXPECTED OUTPUTS
I	# 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 test, etc. # Rehabilitation methods, Grouting, Gunning, Jacketing, etc. # General study of special chemicals used in construction and repairing works	To make student understand defects in buildings & finding the appropriate remedies.	27th Dec 2021, 3rd, 6th, 10th Jan 2022	Online Teaching	Sketches in sketchbook
II	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	13th, 17th and 20th Jan 2022	PPT& videos.	Assignment based on various types of defects and their remedies
III	General study of # Suspension structures, # Membrane structure # Pneumatic structures	To make student aware of Geometry, material & advance techniques	24th, 27th, 31st Jan, 3rd, 10th, 14th Feb 2022	Interactive learning & visit to site	Tutorial on Suspension, Membrane and Pneumatic structures
IV	High-rise buildings # Foundations #Structural Systems #Architectural Design	To make students understand form & material with advance techniques	17th, 21, 24th Feb 2022	PPT & Videos	High rise buildings and students Presentations

	Considerations				
V	# 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.	28th Feb, 3rd, 7th Mar 2022	PPT & videos	Sketches in sketchbook
VI	# Design and detailing of additions and alterations in existing buildings put to new use. # Process of modifications and precautions to be taken	To make students aware of various techniques used for additions & alterations.	10th, 14th, 17th, 21st, 24th Mar 2022	PPT	Sheets in A1 size
ATTENDANCE	SUBJECT CONTENTS/ SESSIONAL EXAM/ CLASS TEST	PLATES/MODELS/ SKETCHBOOK/TUTORIALS			TOTAL
20	55	25			100

PROFESSIONAL PRACTICE - TEACHING PROGRAMME 2021-2022

5th year - 10th Semester (Even Semester)

TEACHERS INCHARGE: Ar. Poornima Deshpande Ar. Namrata Gaurkhede

UNIT	TOPIC	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.	4th, 7th and 11th Jan 2022	PPT Presentations	Tutorials
	Role of professional society, Professional code of conduct, Ethical ways of getting architectural commission, Importance of conduct of architectural competitions, architectural copy right.			
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.	18th, 21st Jan 2022	PPT Presentations	Tutorials
3	Architects Office, Organisation and Administration, Office set up,	25th, 28th Jan 2022	PPT Presentations	Tutorials
	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 rules.			
Guest Lecture by Ar. Gurunath Modak (Topic - Office Organisation)				
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.	1st,4th, 9th Feb 2022	PPT Presentations	Tutorials
Guest Lecture by Shri. S.R. Marathe (Topic - Tenders)				
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.	15th,16th, 22nd Feb 2022	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.	23rd, 25th Feb 2022	PPT Presentations	Tutorials

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

- CO 1 - Difference between trade, business and profession
- CO 2 - Importance of conduct of architectural competitions
- CO 3 - Architects Office, Organisation and Administration, Office set up
- CO 4 - Importance of Tenders
- CO 5 - Importance of Contracts
- CO 6 - Architects Act 1972

Teaching Framework 2020-21:

Elective: 10th semester electives are as follows:

1. **Housing**
2. **High Tech Architecture**
3. **Urban Design**

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 understand the Housing and its condition in India				
WEEK 1	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
Assignment II WEEK 2, 3 & 4	Enhancement in thesis Project	To integrate various planning (housing) concepts and enhance their thesis Site Plan	Discussions & demonstrations	Final Site Plan
WEEK 5	Introduction to Real Estate Development	To familiarise the students to real-estate market mechanisms and their implications on the processes of city development	Lecture	-
WEEK 5	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
CO2 To understand the financial feasibility concepts and market trends in real estate development				
Assignment 1: Financial feasibility Analysis of a residential Project				
WEEK 6	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 <ol style="list-style-type: none"> 1. Surrounding Landuse 2. Residential Development (3 to 4 Projects in the vicinity) 3. Product Mix 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 	Input in the form of ppt	PPT

WEEK 7	Detailed Area Statement	Detailed Area statement to be calculated with a study of existing DCRs of the chosen location. Working out Saleable & Non-Saleable Areas.	Demo in excel Sheet	Excel Sheet
WEEK 7	Enhancement in thesis Project	To integrate various planning (housing) concepts and enhance their thesis Site Plan	Discussions & demonstrations	Final Site Plan
	Market Analysis	Study the surrounding area and arrive at a suitable market analysis by understanding the trends of upcoming projects nearby. Arriving at a Product mix from Market Analysis	Demo in excel Sheet	PPT
WEEK 8	Enhancement in thesis Project	To integrate various planning (housing) concepts and enhance their thesis Site Plan	Discussions & demonstrations	Final Site Plan
	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
	Understanding Net Profit	Understanding Net Profit of the Project	Demo in excel Sheet	Excel Sheet
CO 3: To integrate various planning (housing) concepts and enhance their thesis Site Plan - Assignment II				
Final Submission of Assignment WEEK 9				
Evaluation Criteria	Assignment I	Assignment II	Attendance	Sessional
Total: 100 marks	30	30	20	20

Elective: HIGH TECH ARCHITECTURE

Teacher In charge: Ar. Sujata Godbole, Ar. Isha Pawar

Introduction

An architectural style that emerged in the 1970s incorporated elements of high tech industry & technology into building design. It is a response to growing disillusionment with modern architecture. High tech architecture is 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 that define 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 holds the building up.
4. The ecology of building, how building affects the public.
5. The services which allow it to work

Along with all these elements, it should be aesthetically appealing also.

There are some pioneer Architects who work in the field of High-tech architecture:

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

A study from the examples of the pioneer architects' work will help the students understand its concept. They will be able to apply the knowledge gained through this elective in their project and future while practicing.

Teaching Plan for High-Tech Architecture		
Weeks	Topics	Assignments
16 th Feb.2022	Introduction to High tech Architecture	
18 th , 22 th & 25 th Feb.2022	CO1 - 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 presentations.
2 nd & 4 th March 2022	Design of Facades: Studio work	To Design Façade for Commercial buildings.
9 th March & 11 th March	Discussion on Advance Materials and their Application	
3 rd week of March as per availability of expert.	CO2 - Guest lecture by experts on Advancement in Construction Technology.	
15 th , 22 nd , 25 th March 2022	Discussion on Energy Conservation, energy efficiency strategies, and Green rating system.	
Last week of March 2022 as per availability of expert.	Guest lecture by experts on Advancement in Building Services.	
1 st week of April 2022	CO3 - Discussion on integration of Advance construction technology, services, and Materials in Design and thesis.	Output in the form of Sheets which will include Façade design, Construction techniques, and Services.

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

Elective: URBAN DESIGN

Teacher In charge: Ar.Poornima Deshpande, Ar. Namrata Gaurkhede

Urban design is the design of towns and cities, streets and spaces. It is the collaborative and multi-disciplinary process of shaping the physical setting for life – the art of making places. Urban design involves the design of buildings, groups of buildings, spaces and landscapes, and establishing frameworks and procedures that will deliver successful development by different people over time.

CO1 To understand what is Urban Design and the difference between Urban Planning and Urban Design

CO2 To understand different Urban Designers and their Philosophies through various Examples

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

Weeks	Topics	Assignments	Expected Output
9th Feb 2022	Introduction to Urban Design and Introduction to the 1st Assignment		
11th Feb 2022	Urban Design Terms Select to urban design terms, explain them through examples	CO 1 - Assignment 1 - To understand what is Urban Design and the difference between Urban Planning and Urban Design	In the form of PPT
16th, 18th, 23rd, 25th Feb 2022	Urban Designer philosophy For students to understand different Urban Designers and the process of planning a project	CO 2 - Assignment 2 - To understand different Urban Designers and their Philosophies through various Examples	In the form of 1-2 A1 Sheets
2nd, 4th, 9th, 11th, 16th, 18th Mar 2022	Case study related to Thesis Select a case study related to your thesis topic, extract UD points and apply them to your thesis project	CO 3 - Assignment 3 - To form guidelines after careful analysis which can be applied at thesis level	In the form of 1-2 A1 Sheets

Evaluation Criteria	Assignment I	Assignment II	Assignment III	Attendance	Sessional
Total: 100 marks	10	15	35	20	20

THESIS 2020-2021

TEACHERS INCHARGE: Prof. S.R. Marathe, Prof. Sujata Godbole & Prof. Anuradha Bhute
**Below mentioned are the dates for Reviews for Final Year (Tenth Semester Students) and
 Schedule of Reviews for Project**

25th Nov.2021 to 4 th Dec (review week)	Review III(Internal)Final topic, Architectural challenge, Aims and objectives, methodology, Identified site and precedent studies.
15 th Dec. 2021	Submission of data collection and precedent study and inferences
15 th to 22 nd Dec.2021	Review IV Open Jury on research and precedent study
8 th Jan to 18 th Jan 2022 Week as per availability of Panel	Internal ReviewV(Internal)
1 st week of Feb.2022	Internal ReviewVI(Internal)
3 rd week of Feb. 2022	External Review I (Requirements: Concept, Site analysis,Site-plan, building Plan, Elevations, Sections in sketch format
2 nd week of March 2022	External Review II- Final submission of drawings and Preliminary report
4th week of March 2022to 3 rd week of April 2022	Working on Architectural detailing.
4th week of April 2022	External Review III- Architectural detailing and Draft report (detailing of architectural Challenge)
2 nd week of May 2022	Pre-FinalReview - Prefinal Submission (All architectural drawings and thesis report)

Dates may change due to holidays, examinations, and other college commitments.

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

Thesis Panel List - 2021-2022

	PANEL 1	PANEL 2
SR.NO	TEACHER NAME	TEACHER NAME
1	DR. PRATIMA DHOKE	DR. NEETA LAMBE
2	PROF.SANJEEVANI MOHOGAONKAR	AR.MEDHA POPHALE
3	POORNIMA DESHPANDE	AR.SAMRUDDHI AMTE
4	AR.VAIJAYANTI YADAV	AR. MRUNMAYEE TIWARI
	PANEL 3	PANEL 4
SR.NO	TEACHER NAME	TEACHER NAME
1	DR.SAMPADA PESHWE	PROF. S.R. MARATHE
2	ATULA PATWARDHAN	AR.AKANSHA AGARWALA
3	AR.HARPREET SAGGU	AR.RASHMI THAKRE
4	AR.SEEMA BURULE	AR.ISHA PAWAR
	PANEL 5	PANEL 6
SR.NO	TEACHER NAME	TEACHER NAME
1	DR.SUJATA GODBOLE	DR.ROOPAL DESHPANDE
2	AR.RASHMI TIJARE	PROF.VISHWAS DIKHOLE
3	AR. SNEHA MANDEKAR	AR.ANURADHA BHUTE
	PANEL 7	PANEL 8
SR.NO	TEACHER NAME	TEACHER NAME
1	DR.MADHURA RATHOD	DR.TARIKA DAGADKAR
2	AR.ANURADHA TIKKAS	AR.SHOBHANA TEMBHURNIKAR
3	AR. SNEHA BODHANKAR	AR.SARIKA JOSHI
4	AR.PIYUSHA RATHORE	Ar. NAMRATA THARWANI

Thesis In charge

Prof.S.R.Marathe

Prof.SujataGodbole

Ar. Anuradha Bhute

STRUCTURE OF THESIS REPORT

COVER PAGE DECLARATION CERTIFICATE ACKNOWLEDGEMENT ABSTRACT
LIST OF TABLES LIST OF FIGURES LIST OF IMAGES

CONTENTS:

CHAPTER 1: INTRODUCTION

BACKGROUND OF STUDY

INTRODUCTION TO TOPIC

NEED OF STUDY

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

DESIGN REQUIREMENT

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 of Study

Text should be in ARIAL 11 pt. Bold

All other Text should be in ARIAL 11 pt. 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

Olgay, V., Olgay, 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 Editors (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 1 October 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)
8. Report

CHECKLIST FOR DRAWINGS

- ✓ Show North in all plans and USE that in your planning process.
- ✓ Write scale of drawing especially in plans
- ✓ Show levels (including 0.00) in all floor plans and sections
- ✓ In all staircase plans show UP and DOWN positions, with proper sign continuity
- ✓ Calculate properly the number of treads and risers in all staircases.
- ✓ 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
- ✓ 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, courtyard etc
- ✓ 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 in plan
- ✓ Specifications of ramps to be clearly mentioned – eg. Length and ratio of slope
- ✓ 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 or roofs
- ✓ 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

TIME TABLE

EVEN SEMESTER 2021-22

DAY	YEAR	10.15am to 12.15pm	1.00pm to 4.00pm		
MONDAY	V		CONST		
	A		SG, TIJ, NTG, PND, SA		
	B				
	C				
TUESDAY	V		PP		
	A		PND, NTG		
	B				
	C				
WEDNESDAY	V	ELECTIVE	PP		
	A	Housing (TIJ, AB)			
	B	High Tech Ar. (SG,IP)	PND, NTG		
	C	Urban Design (PND, NTG)			
THURSDAY	V			CONST	
	A			SG, TIJ, NTG, PND, SA	
	B				
	C				
FRIDAY	V	ELECTIVE	PP		
	A	Housing (TIJ, AB)			
	B	High Tech Ar. (SG,IP)	PND, NTG		
	C	Urban Design (PND, NTG)			
SATURDAY		MEETING	ACTIVITY		

TIME TABLE INCHARGE

AR. PIYUSHA RATHOR

REVIEW SHEET

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT –X SEM. 2020-2021

REVIEW – I

Name of the Student:- _____

Topic:- _____

Thrust Area:- _____

Name of Guide:- _____

Jury's Comment: - _____

-
-
-
-
-

Guide'sComment:- _____

-
-
-

Grade

Guide'sSignature

REVIEW SHEET

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT –X SEM. 2020-2021

REVIEW – II

Name of the Student:- _____

Topic:- _____

Thrust Area:- _____

Name of Guide:- _____

Jury's Comment: - _____

-
-
-
-
-

Guide's Comment:- _____

-
-
-

Grade

Guide's Signature

REVIEW SHEET

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT –X SEM. 2020-2021

REVIEW – III

Name of the Student:- _____

Topic:- _____

Thrust Area:- _____

Name of Guide:- _____

Jury's Comment: - _____

-
- _____
-
-
-

Guide's Comment:- _____

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Grade

Guide's Signature

REVIEW SHEET

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT – X SEM. 2020-2021

REVIEW – IV

Name of the Student:- _____

Topic:- _____

Thrust Area:- _____

Name of Guide:- _____

Jury's Comment: - _____

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- _____
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Guide's Comment:- _____

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REVIEW SHEET

SMT.MANORAMABAI MUNDLE COLLEGE OF ARCHITECTURE

PROJECT –X SEM. 2020-2021

REVIEW – VI

Name of the Student:- _____

Topic:- _____

Thrust Area:- _____

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Jury's Comment: - _____

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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 topic finalised.
- It shall be visited by the student and guide together (if in the same city)
- 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 carefully noted:
 - Actual measurement of the site
 - Capitalization on the strengths of the site (views to natural elements-water bodies, hills, etc)
 - North
 - Land use and zoning
 - Services (Water/drainage/sewer/electric supply)
 - Existing trees and vegetation
 - Gradient/slope of the site
 - Traffic & transportation status
 - Surrounding context (buildings, rules, historical, socio-cultural/economic/political profile)
 - A brief study of the important structures near the site.
 - Microclimate of the site
- 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 clearly shown.
- The design shall start with framing of design program me along with clarification of limitations of the topic.
- The activities and the tentative areas shall be designed, based on facilitation.
- The zoning of activities shall be done and options also shall be made to ensure the best one is worked upon.
- 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 sheets incorporated:

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

climate of the site)

- 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 site plan.

Detailed floor plans (scale-1:100)

- Basement plan, if any, denoting parking and its detailing of lanes, width, manoeuvring of cars along with structural grid (column position, sectional details, specifying beam depth, floor heights)

• Ground floorplan

- Entry from main gate to the building to be clearly shown
- The main entry should always be related to the main road, which leads inside the campus and the various zones it leads to.
- Structural grid, walls shall be made bold and provided with wall hatch
- Doors, windows, shading devices, openings, large openings, semi-open gates, etc. needs to be shown as per various lines.
- Furniture facilitation (light line weight)
- Toilet, balcony, level areas-drops to be shown for understanding of levels
- Levels should be written with respects to road level or ground level,
- Passage, lobby or balcony widths
- 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 its scale.
- 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 line weight.
- Any extension or floor at floor shall be shown in dashed line.
- The plan shall be rendered showing trees, landscape elements, etc.
- Any material or technology which has been used for aesthetic purpose.

• All other floor plans (scale-1:100)

- Any reduction in first floor level shall be shown at first floor with dashed or dotted line.
- 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 MOST IMPORTANT

- Showing level differences, space relationship, scale and proportion, structural detailing, heights at every level, overhangs, etc.
- The services hoisted at topmost floor (OHT, solar panels)
- 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 ground level.
- Rendering, trees, human figures, etc. can be shown

- **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.
-
- **Views & model (same as site planscale)**
- The site plan details should complement themodel
- 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

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