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Submission Calendar

#### Year In-Charge

Prof. Sneha Bodhankar

#### **Class coordinators**

Section A: Prof. Seema Burele

Section B: Prof. Sneha Bodhankar

#### 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
- CreativityCollaboration
- InnovationRespect
- n ●

Discipline

Discovery

- 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 absenteeism, 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 programs organized by the college from time to time. Attendance for programme of 26<sup>th</sup> January and of 15<sup>th</sup> August is mandatory for every student and the dress code a white Salwar Suits/Leggings with Long Kurti.

Study tours- Every year study tours are arranged for students of different years as per their curriculum requirements. Active participation in Study Tour is necessary.

#### 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.

NASA rules and regulation: As per out policy, the students are allowed only to participate in Zonal or Annual NASA.

#### 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 8<sup>th</sup> 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.

		1200 000			ĴĴ .	Load	l Per W	eek		22	(	redits							
Sr. No.	Sub. Code	Sub. Name	Category	Board	L	т	D	S/P	To tal	L	Т	D	S/P	Total	Paper/ Sessional	Duration in Hours	Max. Marks	Total Marks	Min. Pass Marks
1	4S-A-1	Architectural Design III	DC	AR	2	0	0	5	7	2	0	0	5	7	Sessional Viva-voce		150 50	200	100
2	4S-A-2	Construction Technology & Materials IV	DC	AR	2	0	3	0	5	2	0	3	0	5	Sessional Paper	3	100 100	100 100	50 40
3	4S-A-3	Structural Design & Systems-IV	ES	AR	2	1	0	0	3	2	1	0	0	3	Sessional Paper	3	30 70	100	40
4	4S-A-4	Building services-1	DC	AR	1	1	0	0	2	1	1	0	0	2	Sessional Paper	3	30 70	100	40
5	4S-A-5	Architectural Graphics IV	DC	AR	1	0	2	0	3	1	0	2	0	3	Sessional		50	50	25
6	4S-A-6	Theory of Architecture-I	DC	AR	1	0	0	1	2	1	0	0	1	2	Sessional Paper	3	30 70	100	40
7	4S-A-7	Theory of Landscape Architecture	DC	AR	1	0	1	0	2	1	0	1	0	2	Sessional		50	50	25
8	4S-AA-1	Elective a	DE	AR	1	0	2	0	3	1	0	2	0	3	Sessional		100	100	50
9	4S-AA-2	Elective b	DE	AR	1	0	2	0	3	1	0	2	0	3	Sessional		100	100	50
	T	OTAL			12	2	10	6	30	12	2	10	6	30			1000	1000	460

Total Paper-4, sessionals-7, viva voce-1 (Passing heads-12)

Elective a - Graphic Softwares/Web Design/Building Simulation & Modelling/Computer Applications-I

Elective b - Anthropometrics & Ergonomics/Product Design/Design of Building Elements/Photography

#### **DESIGN VI**

Design Mentor: Prof. Vijay Munshi

Design Coordinator: Ar. Sneha Bodhankar

Design Team :

Section A :- Dr. Tarika Dagadkar, Ar. Seema Burele, Ar. Medha Pophale

Section B :- Dr.Roopal Deshpande, Ar. Sneha Bodhankar, Ar. Esha Pawar

#### Introduction

The two projects of Skill development Centre and Gateway Design for the same had been addressed in the III Sem.

Then as a minor project for 4<sup>th</sup> sem **Café library** is being designed on a contoured site with respect to designing built and unbuilt spaces, retaining walls, ramps, levels, etc.

The thrust of the IV sem design problem would therefore now be to refine and polish the already established understanding of the previous semesters and deal with more complex level of design issues. Hence **Kindergarten** is the major project finalized for 4<sup>th</sup> semester, which will specifically deals with modular co-ordination, climate responsive strategies and exploration of spaces required as per the users phycology.

## MINOR PROJECT- CAFÉ LIBRARY

#### 3 WEEK (40 MARKS)

Introduction:

Book cafes have become popular among the country's bibliophiles in recent times. Everyone is looking for a space to read in, to be quiet and comfortable for a few hours. A hot cup of coffee and a piece of cake serve as perfect partners.

The cafe can primarily contribute to strengthening the library's function as a meeting space, but it is also an incorporated extra facility that invites the public to stay a little longer. The **library cafe** is an incorporated spatial surplus that can tempt people to stay a little longer, encourage spontaneous visits, and ideally it can be an open invitation to make use of the library's other functions. It should be able to accommodate groups of people who speak, relax or work together as well as the soloists.

Aim: To Design A Café Library on a Sloping Site

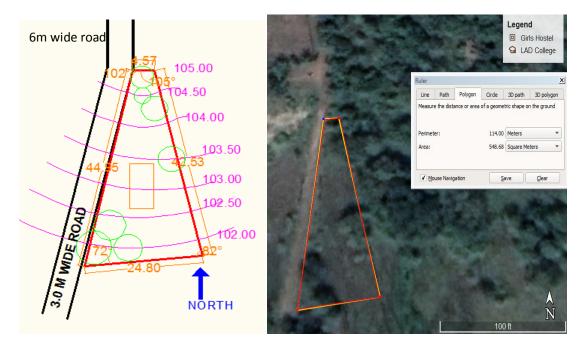
Learning Objectives:

- 1. To understand the sloping site and how to deal with it?
- 2. To explore the sloping site
- 3. To understand how to work with typology
- 4. To understand the technicalities of architectural sections

#### Site:

WES's campus, seminary hills, Nagpur

Rear side of temple complex with the land of 50 sq.. Area having gradual slope of 3m from top to bottom



#### **Design Requirements:**

Students are free to take Activity Spaces related with typology. Design the Café Library for 40-50 people with 150sq m built-up space

### Submission Requirements:

- 1.Study Sheets
- 2. Idea Generation and concept sheet
- 3. Site Analysis
- 4. Design Programe, Zoning, Circulation Diagram
- 5. Model and sketchup views
- 6. Site Plan, Plan, Elevation and Section

Refer-https://modelprogrammer.slks.dk/en/challenges/zones-and-spaces/the-cafe/

STAGES	REVIEW- REQUIREMENTS	WEIGHTAGE
STAGE 1- understanding the typology with the	REVIEW 1 - PRECEDENT STUDY	5 MARKS
help of precedent study		
STAGE 2- site analysis and slope analsis	REVIEW 2- EVOLUTION OF FORM	5 MARKS
Understanding the sloping site and exploration	WORKING ON SECTIONS, DESIGN	
in building section	PROGRAME	
STAGE 3- discussion on converting ideas to	PLANNING AND DETAILING	10 MARKS
buildform and planning		
STAGE 4 – Architectural Detailing	Precedent study	10 MARKS
	Design program	
	Circulation diagrame	
	Site analysis	
	Concept	
	Plan, Elevation , Sections	
	3d model with site	
	Final Submission – 15 <sup>th</sup> March 2021(20 marks)	

#### MAJOR PROJECT- KINDERGARTEN

'In childhood one is more open to sensory immpressions than ever again in ones life. Smell sensation of heat, softness, weight, beauty and much more form the basis of all of lifes later sensations.'

Eva Insulander, Swedish School Ground Designer and planner

Education provided to children in their early childhood is critical for building the foundation for lifelong character formation. In the environment carefully designed for kindergarten education, children should be encouraged to have various experiences while spending time chiefly by playing. Teaching at kindergarten should be comprehensive and yet be tailored to children's individual needs. These basic ideas needs to be thought about while designing the open, semi open and enclosed spaces in Kindergarten.

Aim: To Design A KINDERGARTEN

#### Learning Objectives:

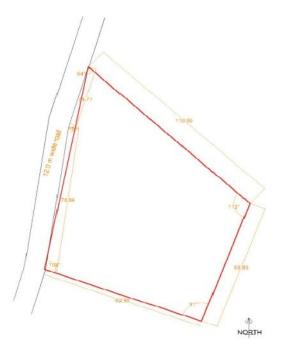
To create a space that nurtures early childhood development following goals needs to be integrated.

- 5. To understand the modular coordination
- 6. To understand the relationship of built and un-built spaces.
- 7. To explore the SPACES with its application
- 8. To Make the student understand to work with typology
- 1. Designing environments for diverse life experiences- Designing all the kindergarten facilities by positively and effectively laying out green areas
- 2. Facilities for helping to develop children's physical strength- Designing kindergarten spaces by taking into account the continuity and uninterrupted movement from the inside to the outside of the kindergarten building and vice versa

3. Considering sustainability in terms of the environment -Designing kindergarten facilities to be built in an environmentally friendly way and with consideration for reduction in the environmental effects, so that the facilities can be used as practical teaching resources.

#### Site:

The identified site is located in WES's campus, Vayusena nagar road, seminary hills, Nagpur. THE TOTAL SITE AREA IS 2.0 acre . The site is considered to be flat land.





# Methodology: TENTATIVE .....SCHEDULE MAY BE CHANGE AS PER UNIVERSITY SCHEDULE

Sr. no	Stages	Description	Inputs	Expected Output	Duration
1	Stage I	Introduction to the topic, Site Study and secondary data collection	Lectures/audio visual presentations by faculty.	Discussions and Study sheets	2hr
	Stage II	Precedent study	Discussion and power point presentation	Discussions and Study sheets	
		Review	/ 1 - 1 <sup>st</sup> march 2021(5 MARKS)		
2	Stage III	Discussion on Design concepts	Discussion and power point presentation	Model/ Sketches and sheets	
		Review	2-8 <sup>th</sup> March 2021(5 MARKS)		
3.	Stage IV	Facilitation, area calculation, Design programme, circulation and zoning.	Discussion	Power Point Presentation	
		Review 3	3- 15 <sup>th</sup> March 2021(15 MARKS)	I	
4.	Stage IV	Floor Plans along with Site Plan	Discussion	Power Point Presentation In Autocad	
		Review 4	on 31 <sup>th</sup> March 2016.(10marks)		
4	Stage V	All Floor plans, site sections & elevations, 3D views, Site plan	Discussion	Final sheets, plan, elevations, sections, views, etc. with model.	
	I	Pre-Final Subr	nission- 3 <sup>rd</sup> week of April (15 marks)	1	
		Final Subm	ission- 2 <sup>nd</sup> week of May (30 marks)		
			External Review		

# **Design Consideration-**

1. Site Area- 2acres

Site Margins- Front margin from main road 12 m, side and rear margins 6 m

- 2. Total Built up area = 1500-1800sq.m
- 3. Activities
- 4. Administration Block, Multipurpose hall, Teaching and nonteaching staff area, Library, Math Labs, Art room, Music lab, Rest areas, Play areas
  - a) Classrooms
    - a. Nursery (3sections)
    - b. KG-I (3sections)
    - c. KG-II (3sections)

#### Submission Requirements:

- 1. Precedent Study Sheets
- 2. Idea Generation and concept sheet
- 3. Site Analysis
- 4. Design Programe, Zoning, Circulation Diagram
- 5. Model and sketchup views
- 6. Site Plan, Plan, Elevation and Section(Architectural Detailing)

#### Evaluation:

Attendance	Major Project	Minor project	Total Marks
20 marks	80 marks	50 marks	150 marks

# Construction Technology and Materials III

Section A- Tarika Dagadkar; Seema Burele Section B -Sneha Bodhankar, Sarika Joshi.

## Note- Portfolio Submissions on Sessional Date of Construction Paper

Sr. No.	Торіс	Objective	Time period	Teaching	methods	Expected output o evaluation
				<b>Active</b> Site visit/ creative exercise	Passive Interactive teaching/ Ppt./ Audiovisuals	Sheets, Sketches, tutorials, market survey of materials, models
1	Timber Partitions	To understand the partitions for different users, in different materials and joinery involved To make students understand the different types, materials and design consideration for designing timber partition	15 <sup>th</sup> and 16 <sup>th</sup> Feb 2021	To understand the location criterion for partition & Site visit	Theory/interactive class on stud and flush partition	Market survey Sketches
		To Understanding Timber stud partition	17 <sup>th</sup> Jan Feb 2021	drafting session	Studio session	Sheet
		To understand the drafting of flush partition	22 <sup>nd</sup> Feb 2021	Composition for design of timber partition	Theory/interactive class flush partition and Drafting	Sheet and Tutorials
		23 <sup>rd</sup> Feb 2021 correction	is in respectiv	e class Doubt session		
		Submission of Timb	er Partition or	1 26 <sup>th</sup> Feb 2021		
2	Aluminium Partition And	Introduction to Aluminium partition to make students understand the sections and joinery details	5 <sup>th</sup> March 2021	site visit (photographic documentation) of	Theory class for Aluminium metal, partition, window	Ask students to conduct a market survey

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	Window			installation of aluminium partition	And UPVC Window	
		Aluminium partition drafting session of case study sheets	8 <sup>th</sup> March 2021	drafting session	Studio session	Sheet
		to make students understand the sections and joinery details involved in Aluminium sliding window	9 <sup>th</sup> March 2021	drafting session	Studio session	Sheet
		Submission of Aluminium Par	tition and Wir	ndow on 16 <sup>th</sup> March 202	20	
		Test 2- Aluminium Partition and	aluminium W	/indow on 22 <sup>nd</sup> March 2	2021	
		Sessional week				
3	Sliding + Sliding- Folding	To understand different types of doors and its applicability To understand the concept of sliding, sliding/folding door and revolving door	23 <sup>rd</sup> and 26 <sup>th</sup> March 2021		Theory class for Sliding-folding door+ revolving door	Ask students to conduct a marke survey
	Door					
		Drafting session sliding, Sliding/ folding To understand the carpentry joinery involved	30 <sup>th</sup> March 2021	Showing Tool, Miniature door of Sliding Folding door	Studio session	Sheet
4	Collapsible Door + Rolling	Drafting session for collapsible and rolling shutter to understand the mechanism	5 <sup>th</sup> and 6 <sup>th</sup> April 2021	Site visit SMMCA, Building	Theory class for Collapsible door+ rolling shutter	Sketches in sketchbook
	Shutter + Revolving Door				Studio session	sheet
		PORTFOLIO SUBMISSI	ON and Test	3 on 9 <sup>th</sup> April 2021		

5	Metal Window And Door	To understand the standardization involved in metal doors and windows	12 <sup>th</sup> April 2021		Theory class for steel+ metal window +door	Sketches in sketchbook Give Case study Assignment
6	Materials	To understand the requirement of different types of material used in building Construction i.e. Cooper, Titanium, Steel, etc.	16 <sup>th</sup> April 2021	Metal window/door model	Theory class for metals- copper and titanium	Model Give Case study Assignment
7	Temporary Structures	To understand the requirement of different types of temporary structures during all stages of construction	19 <sup>th</sup> and 20 <sup>th</sup> April 2021		Theory class for formwork, shoring, timbering to trenches and scaffolding	Giving <b>tutorial</b> questions <b>Site visit report</b>
		Submission of Tutorials	& Sketch Bool	on 23 <sup>rd</sup> April 2021	11	
		Test 4 – Metal Door/ Window, Materia	Ils and Tempo	orary Structures on 26 <sup>th</sup>	April 2021	
		Construction Practice Class	27 <sup>th</sup> and 30 <sup>th</sup>	April 2021 (Revision )		
		FINAL PORTFOLIO		N_ 2 <sup>nd</sup> May2021		

Note - Portfolio Submissions on Sessional Date of Construction Paper.

Assignments shall be evaluated as follows:

Sketch book	Model	Site Visit	Tutorials	Market Surveys(material )
Quality of Sketches	Scale & Proportion	Que. Regarding visit	No. of questions	Information from surveys
Information from surveys	Material		Contents of Ans.	

#### **Evaluation scheme**

Sr. No.		%
1	Attendance	20
2	Plates, Models, Sketchbook, Tutorials	30
3	Site visit	10
4	Sessional Exam	40
	Total	100

Sr.no	Description of CO	Weightage in terms of marks (cumulative marks should not exceed 60)	Output (Test/Essay/ Sheets/ppt/model/Review/anyother)		
CO1	Unit -1 Partition - Timber, Aluminium and steel	8	test and review		
C02	Unit - 2Windows and Door- Steel, Aluminium, and sliding door, sliding and folding door, revolving door, collapsible door and rolling shutter	12	test and review		
CO3	Unit - 3 Metals-Aluminium, copper, steel and other materials	5	test and PPT		
CO4	Unit - 4 Temporary structures- Timbering to trenches, formwork, (centering, shoring and underpinning	5	test and review		

	Rol NAME														
Sr. No	No	NAME OF STUDENT	CO 1	Attainme nt	CO 2		CO 3		CO 4		Session al	Plates/Models/Sket ch book	Sit e visi t	Attendanc e	TOTA L
			U-1		U-2		U-3		U-4						
		Max. Marks	8	Y/N	12	Y/ N	5	Y/ N	5	Y/ N	20	20	10	20	100

#### Architectural Graphics IV

Teacher Incharge – Prof. Vishwas Dikhole, Prof. Madhura Rathod, Prof. Seema Burele, Prof. Sarika Joshi

Third semester Graphics subject helped students to know about perspective. This semester students will be introduced to shades and shadow. During the daytime hours, our constant companion, whether we are aware of it or not, is our shadow. We perceive shades and shadows on both animate and inanimate objects. Empirically, most of us can sense why on an object, shadow takes on certain geometric configuration. However, the shadow sense should be adequate for architectural students. Thus fourth semester graphics subject emphasizes on sciography.

The following unit plan is prepared to follow sequential teaching approach in all sections. Looking forward to enjoy, learn and enhance our knowledge along with students' companion.

MONTH	TOPIC	OBJECTIVES	SUBMISSION
		UNIT I	
larch, 23rd	Recapitulating semester-III- Perspectives	To recall various methods of perspective	1no. A2 size sheet
16 <sup>th</sup> ,23rd Feb, 2 <sup>nd</sup> March, 9 <sup>th</sup> March,16 <sup>th</sup> and 23rd March	Introduction to Sciography	To understand the concepts of shades and shadows	Students will be understanding the casting of shadows and shades on atleast 10 geometrical forms (Model + Sheet)
16 <sup>th</sup> ,23rd 9 <sup>th</sup> Marc	Sciography of lines, planes and 3 dimensional forms	To understand and learn the technical methods of drawing the Sciography	5 no. A2 size sheets
	1	Unit I submission on 30 <sup>th</sup> March 2021	
UNIT II			

30 <sup>th</sup> March, 6 <sup>th</sup> and 13 <sup>th</sup> April 2021	Sciography of various building elements (voids and puncher, chajjas, niches, steps, etc.)	To understand the technical methods of drawing Sciography with respect to Building and landscaping elements.	5 no. A2 size sheets	
30" Mo and 13 20	Sciography for Landscaping elements			
		Unit II submission on 15 <sup>th</sup> April 2021		
		UNIT III		
27th 21	Sciography on building elevations and sections	To understand the technical methods of Sciography of building with respect to Surrounding	1 no. A2 size of design Project	
and 27th bril 2021	<b>o</b> 1 <i>j</i>		1 no. A2 size of design Project 1 no. A2 size of design Project	
20th and 27th April 2021	and sections	Sciography of building with respect to		

#### **Evaluation Scheme:-**

Sessional Marks - 50 Passing Marks : 25

Topics	Max Marks
Portfolio	30
Attendance	10

Sr. no	Description of CO		marks	tage in terms of (cumulative marks not exceed 60)	Output (Test/Essay/ Sheets/ppt/model/Review /anyother)
1	Introduction to sciography, concepts of shades and shadows, technical methods of drawing the Sciography for lines , planes and 3 dimensional forms		12		Sheets and sketchbook
2	Introduction and problems different building elements	<b>e</b> 1 <i>j</i>		10	Sheets and sketchbook
3	buildings elevations and s	oduction and problems on sciography in dings elevations and sections, site plan and wing the sciography in perspective,		8	Sheets and sketchbook
	Sessional 10				
	Total 50				

Sr. No	Roll No.	NAME OF STUDENT	CO1	Attainment	CO2		CO3		Sessional	Attendance	TOTAL
			U-1		U-2		U-3				
		Max. Marks	12	Y/N	10	Y/N	8	Y/N	10	10	50

#### **Building Services I**

#### Teachers in-charge: Prof. Anuradha Bhute, Prof. Priyanka Sambre

Building Services plays an important role in design, as building services is an integral part of planning and design. Everything that makes a building safe and comfortable to live or work in needs to be designed installed and maintained. The course of this semester deals in detail with water supply and sanitation.

#### **OBJECTIVE:-**

- To provide a significant knowledge to the students for integrating design and the supporting services.
- To study the basic services such as water supply and sanitation.
- To learn effective availability of resources.
- To study various services on sites and apply it in their designs.

Name of the Topic	Input	Task / Expected output
Water supply Sources of water supply, qualitative and quantitative aspects, impurities, hard and soft water, quality standards. Water demand and consumption in different types of buildings, computing demand for domestic use	РРТ	
Water demand and consumption in different types of buildings, computing demand for domestic use	Explanation	Assignment 1: Computing demand for their own house and other typology (eg Commercial, Schools etc.)
Domestic water supply system, types, capacity- design-construction and suction and storage tanks. Down take supply, water supply pipes- jointing, fixing, laying Various valves, fittings and fixtures	PPT & Site Visit	Market Survey of various pipes
Domestic hot water supply, water heaters	PPT	
<b>Sanitation</b> Principals of sanitation, water carriage system, collection of waste matter in buildings. Various sanitary fittings and fixtures. Various traps and their functions	РРТ	Sanitary Layout of a residence or college
Sewage collection and disposal system for individual buildings Various types of sanitary pipes- jointing, fixing, laying; manholes, inspection chambers, intercepting chambers	PPT & Explanation	Market Survey
Refuse disposal- sources, types, collection, storage and transport, provisions for refuse disposal individual building level, refuse chutes	PPT & Explanation	
Storm water management	PPT & Explanation	

#### Theory of Architecture I

Teachers-in-charge: Prof. Vaijayanti Yadav, Prof. Nehal Maheshwari

CO1 - Introduction to Architectural Design.

CO2- To understand Architectural Design –analysis – aesthetic &function.

CO3 -Study of Architectural Space & Mass.

CO4 -To understand Aesthetic Components of Design.

CO5 -Application of Color in Architecture.

Date	Unit to be covered	Inputs on
Feb week III	Unit I	Discussion on definition of architecture. Asked to compile at least 10
	Definition of Architecture	definitions and identify the most appropriate
	Discussion on definitions	Discussion on write ups written by students
Feb week IV	Introduction to elements of architecture	Presentation and discussion on Floor as an element of space making
March Week I	Introduction to elements of architecture	Presentation and discussion on other elements of space making, column, wall, openings, roof.
March week II	Unit II	Post -modernism
	Isms in architecture	De-constructivism
March Week III	Unit II	Regionalism
	Isms in architecture	
March Week IV	Unit III	Form, space and order, chapter 1 and 2
	Architectural space and Mass	
	Tutorial questions to be given	
April Week I	Unit III	Form, space and order, chapter 3
	Architectural space and Mass	
April Week II	Unit IV	Form, space and order, chapter 6
	Aesthetic components of design	

		-
April Week III	Unit IV	Form, space and order, chapter 7
	Aesthetic components of design	
April Week IV	Unit V	Discussion on color symbolism
	Color in architecture	Small Assignment to be done in the class

#### **Evaluation Scheme**

Attendance	Sessional I	Sessional II	Total
10	10	10	30

#### Theory of Landscape Architecture I

Teacher In-charge: Prof. Ketki Tidke, Ar. Sneha Mandekar

#### **Objectives:**

CO1: To introduce students to the discipline of landscape architecture and its relevance to architecture.

CO2: To make students aware of architecture beyond buildings, in the outdoor environment and spaces through the historical developments.

CO3: To understand the role and importance of landscaping and site planning in enhancing and improving the quality of building environs, functionally and aesthetically.

Syllabus Content	Topics	Schedule	Prescribed Reading	Assignment	Date Of Submission
Introduction to Landscape	French				
Architecture.	Italian		Site planning-		
Historical development of	English	19 <sup>th</sup> Feb 2021	Kevin Lynch		
Landscape Architecture			Revin Lynch		
Origins of Gardens					
Historical development of	Mughal	4 <sup>th</sup> week of Feb			
Landscape Architecture	Japanese	4 week of red			
Historical development of	Egyptian				Submission of
Landscape Architecture	Persian	1 <sup>st</sup> week of March		Tutorial	
	Spanish	T week of March		(Assignment I)	Assignment I (10 marks)
	American				
Modern Garden	Company towns				
Development. Effect of	Park Movement				
Industrialization on Garden	Green Belts				
Design.	Urban Parks	2 <sup>nd</sup> week of March	2 <sup>nd</sup> week of March		
	Residential				
	Gardens				
	Small Gardens.				

Factors and Components of	Psychological				
Landscape	considerations of				
	spaces and	ices and			
	enclosures.	enclosures. 3 <sup>rd</sup> week of March			
	Manmade and				
	natural				
	components				
	24 <sup>th</sup> Feb to	29th Feb 2020 - Sessional exam	ination (10 marks)		
Elements of Landscape	LAND				
Architecture.	Soils, Geology,				
	Topography, Earth				
	forms, Levels,				
	Foundations,				
	Grading,		Landscape		
	Drainage, Paved		Architecture		
	surfaces		(Third Edition) –J		
	PLANTS	4 <sup>th</sup> week of March	O SYMONDS (A		
	Trees, Shrubs,	4 week of March	Manual of Site		
	Climbers etc.		Planning and		
	Other horticultural		•		
	aspects.		Design)		
	WATER				
	Various types of				
	water features.				
	Construction of				
	water elements.				
Role and importance of	Introduction			Project (Assignment	
landscaping and Site planning	CLIMATE			II): Site	Portfolio
in enhancing and improving	Macro and Micro	1 <sup>st</sup> week of April		development of	Submission of
the quality of building	climatic	i week of April		Major project of	Assignment II
environments, functionally	considerations in			Design, design of	(20 marks)
and aesthetically. Relationship	Landscape			water feature	

between climate and	Architecture				
Landscape Architecture					
Site planning	Siting of buildings		<u> </u>	-	
	Articulation of	2 <sup>nd</sup> week of April	Site planning-		
	Outdoor spaces		Kevin Lynch		

#### MARKS DISTRIBUTION: Sessional Marks 50

Attendance	10
Assignment I (Tutorial)	10
Sessional examination	10
Assignment II (Project)	20

#### Elective A - Graphic Softwares

Teacher in charge: Ar.Sneha Bodhankar, Ar. Seema Burele

Objective- To teach students to prepare presentable AutoCAD drawings. Lot of practice sessions will be given to make students capable of generating fast and best quality architectural drawings. **Course Outcome:** 

CO1 : To understand Software and their integration in Studio Subjects

CO2 : To study the and explore different tools which will help student for design form evolution

Date	Unit to be covered	Inputs and outputs
Feb –MARCH 2021	GOOGLE SKETCH UP Introduction	Basic introduction to explore software
	Overview of sketchup Creating an environment Using Shapes to 3d objects Creating and modifying primitive objects Colour and textures Extensions, nodels and related software	Students will make the site and conceptual massing in sketchup of Café Library
	COLAND CO2 Date of sub-science 20 <sup>th</sup> Marsh	0001
	CO1 AND CO2- Date of submission- <u>30<sup>th</sup> March</u>	<u>2021</u>
Assignment 1 - 3 ( 20 marks)	d view in sketchup -Design minor project with Sloping Site, exploration of roofs a	

April	Introduction about AutoCAD	Handson on software, guidelines
May	Introduction to working environment.	Instructions and students will
2021	Introduction to status Bar. Navigating through the GUI.	work
	Line with dimension & without dimension.	
	Drawing angular lines, Ray, construction line, Multiline. Ortho, Osnap, Osnap setting, Polar,	
	Otrack, Poly line. Poly line edit, Selection Window, Polygon, Undo, Redo, Trim, Rectangle,	
	Helix, Arc, Circle, Donut, Erase, Ellipse, Copy, Mirror, Array – rectangular, polar, path, offset, Move.	
	Rotate, scale, stretch, Lengthen, Extend, Break, Break at point, Join, Chamfer, Fillet, Blend	Handson on software, guideline
	curves, Area, Distance, Radius, Angle, Properties, Quick Properties, Selection Cycle, Dyn	Instructions and students will work
	Make Block, Insert Block, Boundary, Point, Divide, Measure, Point style, Table, Hatch, Hatch	
	Edit, Gradient, Layer Properties Manager, LWT, TPY, Properties Toolbar, Tool palettes,	
	Design Center, Unit Conversion, Text single and Multiline, Match Properties	
	CO1 AND CO2 Date of submission- <u>15<sup>th</sup> May 2021</u>	
	Assignment 2: Site plan of populing (Marian project) 2d	
	<b>Assignment 3:</b> Site plan of parking (Major project)-2d (20 marks)	
	(20 marks)	
April	(20 marks)	
May	(20 marks)	
May	(20 marks) Autocad 3D Creating isometric views, iso circle, oblique, 3D modeling tools. Polysolid, box, cylinder, wedge, ducs. Cone, sphere, pyramid, torus, helix, planer surface	
April May 2021	(20 marks) Autocad 3D Creating isometric views, iso circle, oblique, 3D modeling tools. Polysolid, box, cylinder, wedge, ducs. Cone, sphere, pyramid, torus, helix, planer surface Subtract, material browser, colour face, adding material to single side. Extrude press pull,	
May	(20 marks) Autocad 3D Creating isometric views, iso circle, oblique, 3D modeling tools. Polysolid, box, cylinder, wedge, ducs. Cone, sphere, pyramid, torus, helix, planer surface Subtract, material browser, colour face, adding material to single side. Extrude press pull, revolve, sweep, loft. Move gizmo, rotate gizmo, 3D align, 3D array. Extrude, move, offset,	Handson on software, auideline
May	(20 marks) Autocad 3D Creating isometric views, iso circle, oblique, 3D modeling tools. Polysolid, box, cylinder, wedge, ducs. Cone, sphere, pyramid, torus, helix, planer surface Subtract, material browser, colour face, adding material to single side. Extrude press pull,	Instructions and students will
May	(20 marks) Autocad 3D Creating isometric views, iso circle, oblique, 3D modeling tools. Polysolid, box, cylinder, wedge, ducs. Cone, sphere, pyramid, torus, helix, planer surface Subtract, material browser, colour face, adding material to single side. Extrude press pull, revolve, sweep, loft. Move gizmo, rotate gizmo, 3D align, 3D array. Extrude, move, offset, copy, delete, taper, and rotate faces. Chamfer, fillet, copy edge, colour edge, clean, union, separate, intersect, shell	Handson on software, guideline Instructions and students will work
May	(20 marks) Autocad 3D Creating isometric views, iso circle, oblique, 3D modeling tools. Polysolid, box, cylinder, wedge, ducs. Cone, sphere, pyramid, torus, helix, planer surface Subtract, material browser, colour face, adding material to single side. Extrude press pull, revolve, sweep, loft. Move gizmo, rotate gizmo, 3D align, 3D array. Extrude, move, offset, copy, delete, taper, and rotate faces. Chamfer, fillet, copy edge, colour edge, clean, union,	Instructions and students will
May	<ul> <li>(20 marks)</li> <li>Autocad 3D Creating isometric views, iso circle, oblique, 3D modeling tools. Polysolid, box, cylinder, wedge, ducs. Cone, sphere, pyramid, torus, helix, planer surface</li> <li>Subtract, material browser, colour face, adding material to single side. Extrude press pull, revolve, sweep, loft. Move gizmo, rotate gizmo, 3D align, 3D array. Extrude, move, offset, copy, delete, taper, and rotate faces. Chamfer, fillet, copy edge, colour edge, clean, union, separate, intersect, shell</li> <li>Visualization &amp; walkthrough- Render, render environment, render with sky background. Sun</li> </ul>	Instructions and students will

	Layout & plotting. Export, layout, import, creating viewports, plotting. Conversion of AutoCAD drawing into Photoshop, sheet composition & rendering	
	Date of submission- <u>30<sup>th</sup></u> <u>May 2021</u>	
	Assignment 4: (Major project)-3D Auto Cad (20 marks)	
Attendance 20 marks		

#### **Evaluation Scheme:**

Total = 100marks (20marks on Attendance+ 80marks on 4 Assignment)

# Elective B – Photography

Teachers In charge- Prof. Atula Patwardhan, Ar.Sarika Joshi

**Vision**- All architecture students can prosper by learning to see light and how light alters the visual impact of architectural forms. Just as drawing allows students to refine their vision and perspective teaches how we see; the camera allows for yet another discipline to organically create with architecture and light.

This course will teach students to create successful images of exterior architecture, interior architectural design, as well as architectural models.

Course Objectives: Upon completion of this course each student will possess the following skills:

- Comprehensive understanding of Photography.
- Heightened sensitivity to light and how it strengthens architectural design
- Ability to use High Dynamic Range (HDR): multiple exposures to create dramatic architecture/interior images without additional professional lighting.
- Intermediate ability to photograph architectural models and small products, including a studio set up with studio lighting and possibly strobe lighting.

Date/ Duration	Торіс	Assignment	Expected out come	marks	Submission date	
1st Feb to 5 <sup>th</sup> Feb 2021	Introduction to photography- presentation by ALP presentation on importance of ground line, negative spaces in photographs and use	Photography of an object from different viewpoints & camera angles (minimum 5 images) soft/hard copies. Capture the photo of the same scene with different eye levels changing the proportions of the ground and sky.	5 images 4 Images	5marks 10 marks	submission date 6 <sup>th</sup> Feb 2020	
	of focal point for the picture frame. Introduction to Indoor photography Tabletop -To explore textures of different material and impact of light on it.	Make composition of various cosmetic products having different textures and material. Capture the photo of the composition with dramatic lighting effects.	2 different compositions	15 marks		
	Test	Swayam NPTEL exam	Show score	20		

	card of NPTEL	

Date/ Duratio	Торіс	Assignment	Expected out come	marks	Submission date
n					
8st Feb to 12 <sup>th</sup> Feb 2021	Architectural photography	Capturing building elements with lighting effects	5 photos of any 5 building elements (Fenestration, jali, pergola, columns, canopy chajja balcony, staircases)	15 marks	submission date 13 <sup>th</sup> Feb 2021
	Photographic Documentation of design model	Photos of model from different (unique) angle in natural light setting with sciography.	Collage of all the photos	15 marks	
Evaluati on	Attendance – 20 marks	All Assignments – 60 marks	Swayam NPTEL marks	. Test- 20	Total-100

# Elective B – Design of building elements

Teachers: - Dr. Tarika Dagadkar, Ar. Isha Pawar

Building elements are the basic identifiable parts of the manmade built environment; these elements possess attributes inherent to their morphological construct which endow them with spatial properties, providing potential for their use and design in architectural compositions.

# Objectives

CO1 : To understand different building elements and their integration through the works of famous architects.

**CO2** : To study the factors which influence the design of building elements.

**CO3** : To Study and analysis the building elements under the heads- Anatomy, its evolution process, attributes spatial roles and application. Incorporate the building elements in the major design project.

Sr. No.	Allotted Hours	Торіс	Input	Assignment
1	2	Introduction to the building elements, study the integration of building elements through the works of famous architects	Presentation, Interaction.	Assignment 1 on CO1 : Submission on building elements used by famous architects.
2	2	<ul> <li>Identify the factors which influence the design of building elements-</li> <li>Cultural / style / period.</li> <li>Regional / contextual.</li> <li>Building material, construction techniques.</li> </ul>	Lecture, Discussion.	<b>Assignment 2 on CO2 :</b> Submission on the given topic
3	2	Study and analysis of the building elements under the heads- Anatomy, its evolution process, attributes spatial roles and application.	Lecture, Discussion.	Assignment 3 on CO3: Sheets showing the building elements in the major design project.

	Incorporate the building elements in the major	
	design project.	

# **READING MATERIAL**

- Form space and order by D.K Ching.
- Principles of Architecture. By Mohan, G. Muthu shobha
- Elements of spacemaking by Yatin Pandya.

# **Evaluation scheme**

1 <sup>st</sup> Assignment	2 <sup>nd</sup> Assignment	3 <sup>rd</sup> Assignment	Sessional Exam	Attendance	Total Marks
20	20	20	20	20	100