



**Bharati Vidyapeeth**  
**COLLEGE OF ARCHITECTURE**  
Affiliated to the University of Mumbai



Founder :  
**Dr. Patangrao Kadam**  
M.A., L.L.B., Ph.D.

Belpada Complex, Opp. Kharghar Rly. Station,  
Sec.7, C. B. D. Belapur, Navi Mumbai- 400 614 - India

Principal  
**Prof. Satish Dhale**  
(G.D.D.D., P.G.D.D., IIA, M.Sc.ID, M.Arch)


Ref. No. : BV / COA / N.M. /

Date :

# 1.1

## Curricular Planning and Implementation



  
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College of Architecture  
Belpada Complex, Opp. Kharghar  
Rly. Station, C.B.D. Navi Mumbai



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# Criteria 1

# CURRICULAR ASPECTS



  
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### 1.1.1

**Effective curriculum delivery through a well-planned and documented process.**



  
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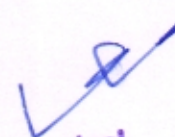
## Criteria 1 – CURRICULAR ASPECTS

### Key Indicator – 1.1 Curricular Planning and Implementation

**1.1.1 The institution ensures effective curriculum delivery through a well-planned and documented process.**

Sr. No.	Contents (Documents)
1	Description
2	Lesson Plans – Samples for AYs 2023-24
3	Design Brief – Samples for AYs 2023-24
4	Design Schedule – Samples for AYs 2023-24
5	ERP Report – Samples for AYs 2023-24



  
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**1.1.1 The institution ensures effective curriculum delivery through a well-planned and documented process.**

Bharati Vidyapeeth College of Architecture (BVCOA), Navi Mumbai is affiliated to University of Mumbai and follows the stipulated syllabus designed by the university with Credit Based Grading System for B.Arch, B.Voc-ID and M.Arch programmes.

The institute supports the Sanstha's mission of "Social Transformation through Dynamic Education" by establishing the curriculum using a student-centric teaching and learning strategy, which aims to develop the learner as a whole. With an integrated teaching method, the courses aim to get a comprehensive understanding of the subject. They attempt to connect the knowledge they have gathered and incorporate it in their design proposals to maintain the program's integrity.

The various teaching techniques used in the classroom include case studies, lectures, discussions, demonstrations, experiential learning, and site visits to gain real-world knowledge. Through thoughtfully planned projects, teachers try to foster creativity, imagery, an analytical mindset, and a research mindset. Value added certificate programs at all levels are being created in accordance with IQAC's recommendations in order to close the gap between academia and contemporary practice trends. Professionals and experts from a variety of sectors are also invited to give lectures, workshops, and seminars. To improve documentation abilities and perform sociocultural research of the remote communities, study excursions are organized.

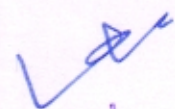
**Lesson Plans:**

The lesson plans are prepared with the focus on the course outcomes reviewed and approved by Academic Monitoring Committee (AMC). The assignments are framed considering the student's capabilities and understanding. Schedule for submission, marking is incorporated with the flexibility by the subject teachers in support of the students.

**Design Brief:**

Design briefs are the initial phase before a project started. They contain the necessary information for architectural projects, such as the site, general introduction, area requirements, and unit sizes. It is prepared for the semester in which the design problem occur.



  
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LESSON PLAN

		First Year B. Arch.		
		SESSION	2023-24	SEMESTER
Subject: Architectural Design 1		Faculty: Ar.Sangam, Ar.Nasir, Ar.Telesh, Ar.Juili Satifsh Puri, Ar.Moses, Ar. Kajaal		
CO1	Understanding anthropometry and its relation to space.			
CO2	Students should understand the scales and proportions through practical exercises and theory.			
CO3	Understanding context and space for creating design form.			
CO4	Students should be exposed to architects, their works and style through text, drawings and pictures.			
CO5	Applying principles, concepts and fundamentals of basic design to architectural design project.			
CO6	Develop appropriate graphic skills and presentation techniques to explain their project.			

Aim:	Marking system			
	Sessional	External Viva-voce	Theory Paper	Total Marks
1. Understanding the human body in space	150	--	--	150
2. Activities and their relationship with spaces				
3. Scales and proportions				
4. Developing a language vocabulary, visualization				
5. Exposure to architecture,				
6. Exposure to architects and their works				
7. Buildings, practices, site visits, meeting architects				
	Lectures per week	Studios per week	No. of weeks	Total

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8. Sessional work based on above.									
<b>Objective:</b> Understanding basic services required for a building and interior spaces		72 periods of 50 minutes duration		18		60 Hours			

Week	Date	Faculty teaching the topic	Topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Assignment (Expected output)	Date of submission	Output achieved
1	3/10/23	Design Team	<b>Orientation - Introduction to Architecture Course</b>	Introduction to architectural design subject, intention of studying and relevance to the field. Fun exercises	Briefing Discussion	Neufert	Fun Exercises and Sketchbook Sketches	-	COI
	6/10/23								
2	10/10/23	Design Team	<b>Anthropometry</b>	Measuring human dimensions and making scaled models in various human related activities in relation to the furniture.	Lecture Power Point Presentation/Briefing session and group activity	Time Saver, Form Space Order and Neufert	-	17/10/23	COI - 15 MARKS



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	13/10/23		Anthropometry	Understanding the scale and learning standards	Measure drawing	Time Saver, Form Space Order and Neufert	sheets	17/10/23	CO2 – 15 MARKS
3	17/10/23	Design Team	Individual Discussion of Students Work	All above assignments	One on one discussions	-	-	-	-
	20/10/23		Understanding architectural terminology	Different architectural terminologies & Importance of Drawing – Understanding the basic theories in architecture	Lecture via Power Point Presentation	Faculty Notes	Sheets	-	CO4
4	24/10/23	Design Team	Individual Discussion of Students Work	In-Class assessment of studio sheets	One on one discussions	-	-	-	CO4
	27/10/23		Learning to draft various architectural drawing	Studio work- Tracing the drawings	Time Saver	-	31/10/23	CO6	
5	31/10/23	Design Team	Reimagining the spaces	Reimagining the spaces- StudioWorks	Studio work One on one discussions	Form, Space and Order – Frank Ching	Sheets and model	3/11/23	CO5 – 15 MARKS
	03/11/23		Reimagining the spaces- Studio work	Studio work One on one discussions	Form, Space and Order – Frank Ching	Sheets and model	10/11/23	CO5 – 15 MARKS	
6	07/11/23								

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	10/11/23												
7	14/11/23												
	17/11/23												
8	21/11/23												
	24/11/23												
9	28/11/23	Design Team	Project introduction	Lecture via Power Point Presentation – Briefing session	-	-	-	-	-	-	-	-	-
	01/12/23		Site visit & case study	Site visit Measured Drawing	-	-	-	-	-	-	-	Photos, Sketches and measured drawing	05/12/23
	05/12/23		Site development in form of 2D drawing	Studio work One on one discussions	-	-	-	-	-	-	-	Drafting of site in 1:100 scale	13-01-23
10	08/12/23		Form development	Studio work One on one discussions	-	-	-	-	-	-	-	-	-
	12/12/23		Form development Studio	Studio work One on one discussions	-	-	-	-	-	-	-	Physical block Model	15/12/23
11	15/12/23		<b>Mid Term - Form development jury</b>										<b>Physical block Model</b>
	19/12/23		Development of Plans, Sections and elevations	Studio work One on one discussions	-	-	-	-	-	-	-	-	-
12	22/12/23		Form development and sketches (Marking)	To scale model and sketches	In-Class assessment								26/12/23
												Understanding of form and function to scale	CO2 - 10 MARKS



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13	26/12/23	Sections, elevations	Studio work One on one discussions	-	-	-	-
	29/12/23	Plans (Marking)	To scale model in tandem with on scale plans	In-Class assessment	Development of Plans	-	CO6 - 10 MARKS
14	02/01/24	<b>Pre-Final Evaluation Plan/Section/Elevation Jury</b>					
	05/01/24	<b>REMIDIAL</b> Doubt Clearing / Revision of concepts & Model Making Techniques	Studio work One on one discussions	-	Improvement in Form development (of Identified students)	12/01/2024	CO2
		<b>Plans, sections and elevations (Marking) &amp; Model Making Techniques</b>	Development of sections and elevations	In-Class assessment	Development of Plans, Sections, elevations in tandem with the form	12/01/2024	CO6-10 MARKS
15	09/01/24	<b>REMIDIAL LECTURES- Doubt Clearing Sessions</b>					
16	12/01/24	<b>Pre-Final</b>	Plans, Sections, elevations in tandem with respect to the form.	In-Class assessment	Portfolio & Physical Model (without render)	16/01/24	CO6 - 20 MARKS
	16/01/24						
17	23/01/24	<b>REMIDIAL LECTURES- Doubt Clearing Sessions</b>					
	26/01/24						
18	30/01/24	<b>Final Port Folio Submission CO6 - 25 MARKS</b>					

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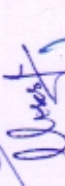
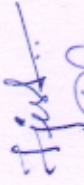


Faculty In charge:


1. Ar.Sangam
2. Ar.Nasir
3. Ar.Telesh
4. Ar. Juili Satish Puri
5. Ar.Moses
6. Ar.Kajal



Ar. Satish Dhale  
Principal




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**L E S S O N P L A N**

<b>First Year B. Arch.</b>			
<b>SESSION</b>	<b>2023-24</b>	<b>SEMESTER</b>	<b>IB</b>
<b>Subject: Allied Design studio 1</b>			
<b>Faculty: Ar.Kamakshi, Ar. Priyanka, Ar. Anupama Ar. Prachi</b>			

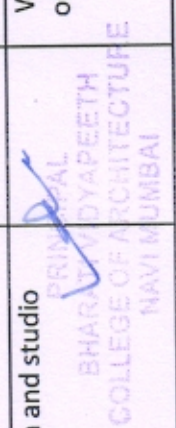
Syllabus and Objective		Marking system			
Sessional	External Viva-voce	Theory Paper	Total Marks	Credits	
150	-	0	150	6	
Teaching Schedule		Lectures per week	Studios per week	No. of weeks	Total
Periods of 50 minutes each	0	4	14	56	
<p>The course content will be developed by the individual colleges as per their choice of Allied Design scheme. The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces Visual Field &amp; Practices (given as an example) Visual practices visual compositions using real world materials Similarity &amp; self-similarity understanding diversity Natural &amp; artificial forms/colors/textures; inherent/applied</p> <p>C01- The students should be able to appreciate the visual design elements such as points, lines, planes, shapes, forms, space, color and texture.</p> <p>C02- The students should understand principles of designs like contrast, scale, proportion, rhythm etc.</p> <p>C03- The students should understand principles of similarity and self-similarity.</p> <p>C04- Students should be able to demonstrate space making through the basic elements of design and principles of composition.</p> <p>C05- Students should be exposed to sources of inspiration for bringing out the creativity.</p> <p>C06- The students should be able to understand the application of principles of design like Balance, Movement, Rhythm, Proportion, Scale, and Harmony in three-dimensional composition.</p> <p>C07 - The students should be able to articulate the priorities of the objectives of design: aesthetics, order, efficiency and economy.</p> <p>C08 - The students should be able to orient study of Architecture as a design discipline.</p>		<p><b>ATTESTED TRUE COPY</b></p> <p align="center">   <b>PRINCIPAL</b>  <b>BHARATI VIDYAPEETH</b>  <b>COLLEGE OF ARCHITECTURE</b>  <b>NAVI MUMBAI</b> </p>			
<b>Teaching Program</b>					

Week	Date	Topic to be taught with name of faculty teaching the topic	Sub-Topics	Methodology of Teaching Books, Journals, etc. to refer Topics for Assignment / Test/Remedial lectures (Expected output)	Books, Journals, etc. to refer	Topics for Assignment / Test/Remedial lectures (Expected output)	Date of the submission for Assignment / Test/Remedial lectures	Outputs achieved from the Assignment / Test/Remedial lectures
1	Week 1 - 10/10/2023	Introduction to BD subject & 2D composition	<ul style="list-style-type: none"> <li>◦ Explain the entire syllabus</li> <li>◦ Understanding the importance of this subject</li> <li>◦ Started with simple any 2 or 3 types of line composition</li> </ul>	Discussion and studio work	-	Working on sheet	12/10/23	
	Week 1 - 12/10/2023	2D Composition	<ul style="list-style-type: none"> <li>◦ Geometric shape composition 's with any 2 or 3 Shape</li> </ul>	Discussion and studio work	-	Working on sheet	17/10/23	
2	Week 2- 17/10/2023	2D Composition model	<ul style="list-style-type: none"> <li>◦ Model of any one Geometric shape composition made in previous class</li> </ul>	Discussion and studio work	-	Working on model	19/10/23	
	Week 2- 19/10/2023	2D Composition model shadow	<ul style="list-style-type: none"> <li>◦ Draw a Shadow of Geometric shape composition model by keeping it in various times of the day</li> </ul>	Discussion and studio work	-	Working on sheet	26/10/23	
3	Week 3- 26/10/2023	Design principal	<ul style="list-style-type: none"> <li>◦ Studying different Design principal</li> </ul>	Discussion and studio work		Working on sheet	31/10/23	

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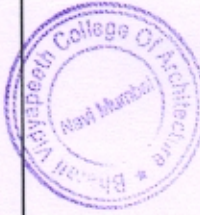
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4	Week 4- 31/10/2023	2D Composition	<ul style="list-style-type: none"> <li>Composition with line dots and curve</li> </ul>	Discussion and studio work		2/11/23	
	Week 4- 02/11/2023	Design principal	<ul style="list-style-type: none"> <li>Applying the design principal with respect to nature</li> </ul>	Discussion and studio work		9/11/23	Working on sheet
5	Week 5- 7/11/2023 & 9/11/2023	Progressive work	<ul style="list-style-type: none"> <li>Progressive sheet</li> </ul>	Discussion and studio work			Working on sheet
6	Week 6- 28/11/2023 & 30/11/2023	3D Composition	<ul style="list-style-type: none"> <li>Composition with any 4 objects</li> </ul>	Discussion and studio work		5/12/23	
7	Week 7- 5/12/2023	3D Composition shade & shadow	<ul style="list-style-type: none"> <li>Draw a Shadow of 3D composition by keeping it in various times of the day</li> </ul>	Discussion and studio work		7/12/23	Working on sheet
	Week 7- 7/12/2023	Abstract 3D composition	<ul style="list-style-type: none"> <li>Using 4 rectangular boxes big &amp; Small and 4 Balls both big &amp; small and considering the principle of Design, models were made</li> </ul>	Discussion and studio work		12/12/23	Working on sheet
8	Week 8- 12/12/2023 & 14/12/2023	Abstract 3D composition	<ul style="list-style-type: none"> <li>Sketching on Sheet</li> </ul>	Discussion and studio work	ATTESTED TRUE COPY	19/12/23	Working on sheet
9	Week 9- 19/12/2023 & 21/12/2023	Understanding Patterns	<ul style="list-style-type: none"> <li>Identifying Patterns in Nature (Flora, Fauna) and Textile (Indian, Foreign)</li> </ul>	Discussion and studio work		26/12/23	Working on sheet

	3								
10	Week 10- 2/1/2024 & 4/1/2024	Understanding Patterns	Presentation – Book formation	Display work	Working on sheet	2/1/24			
11	Week 11- 9/1/2024 & 11/1/2024	Abstract Painting		Discussion and studio work	Working on sheet	9/1/24			
12	Week 13- 16/1/2024	Progressive work	Progressive sheet	Discussion and studio work	Working on sheet	18/1/24			
	Week 13- 18/1/2024	Final Portfolio submission	Progressive sheet	Discussion and studio work	-	-			
<p><b>List of Assignment:</b>                  Assn 1 – 2D composition of line                  Assn 2 - 2D composition of shape                  Assn 3 - 2D composition model                  Assn 4 - 2D composition shadow</p>									
<p><b>Subject Coordinator:</b>                  Ar.Kamakshi ,Ar. Priyanka, Ar.Anupama, Ar. Prachi</p>									
<p align="right">Principal: <b>Ar. Satish Dhale</b></p>									

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# Bharati Vidyapeeth College of Architecture

## L E S S O N P L A N

Year B. Arch.

Subject: Theory and Design of Structures 1	Faculty: Saira Ajay Thampy Section: A/B	
SESSION	2023-24	SEMESTER
		1

Syllabus and Objective		Marking system				
Introduction to the subject:- Aims, objective and scope of study of theory of structures for architect. Technical names and function of various structural components from foundation to roof. Fundamentals and Mechanics .SI System and Units. Understanding why structures don't fall down. Understanding Loads of various types .Understanding Forces and Moments. Definitions ,causes, effects, units,types of Forces, Conditions of Equilibrium, Beam Reactions.		Sessional	External Viva-voce	Theory Paper	Total Marks	Credits
		50	-	50	100	3
		Teaching Schedule				
Periods of 50 minutes each	Lectures per week	Studios per week			No. of weeks	
	3	-			18	
				Total		
				45		

Teaching Program						
Week	Date	Topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Assignment (Expected output)
1	11/10/23	Introduction to TOS	Importance of the subject in Architecture and how a building does not fall	Regular lectures	Engineering Mechanics by Kurmi	Assessed students by asking questions on topics taught
2	13/10/23	Components of a building	foundation,plinth,walls,columns,beams, floors,lintels, windows,doors,ventilators, sills,sunshades,roofs,parapet walls,staircases	Regular lectures		CO1
3	18/10/23	Components of a building	Notes for all components of a building	Regular lectures		Assessed students by asking questions on topics taught
4	20/10/23	Types of loads affecting the design of the building	Dead load,live load,wind load,seismic load,impact load,environmental loads	Regular lectures		CO2

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 Regular lectures  
  
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								taught
5	25/10/23	Types of loads affecting the design of the building	Notes for all the different types of loads affecting the design of a structure	Regular lectures		Assignment on Types of structures and a comparative study on different types of structures	27/10/23 CO1/ CO2	Assessed students by asking questions on topics on topics taught
6	27/10/23	Definitions and Mechanics	Terms and definitions in mechanics	Regular lectures			CO3	Assessed students by asking questions on topics on topics taught
7	01/11/23	Definitions and Mechanics	Notes:Terms and definitions in mechanics	Regular lectures				
8	03/11/23	Forces	Numericals on Parallelogram law of forces and Resolution of Forces	Regular lectures			CO4	
9	08/11/23	Forces	Numericals on Resolution of Forces, Triangle Law of forces, Polygon Law of Forces	Regular lectures		Assignment in the form of Numericals on parallelogram law of forces and resolution of forces	09/11/23 CO3/CO4	
10	09/11/23	Forces	Numericals on Resolution of Forces, Triangle Law of forces, Polygon Law of Forces	Regular lectures				
11	06/12/23	Moment of a Force	Varignon's theory of Moments, Explanation and Numericals	Regular lectures			CO5	
12	08/12/23	Moment of a Force	Numericals on Moment of a Force	Regular lectures				
13	13/12/23	Equilibrium	Lami's Theorem and explanation	Regular lectures			CO6	
14	14/12/23	Lami's Theorem	Numericals	Regular lectures ATTESTED TRUE COPY				
15	20/12/23	Conditions of Equilibrium	Theory explaining the conditions of Equilibrium, Types of beams, types of end supports.	Regular lectures		Assignment in the form of Numericals on moment of a force and Lami's	03/01/23 CO5/CO6	



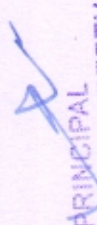
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								Theorem
16	21/12/23	Reactions of support systems	Numericals on Support Reactions	Regular lectures				
17	03/01/23	Reactions of support systems	Numericals on Support Reactions	Regular lectures				
18	04/01/24	Test 1	Numericals	Regular lectures				
19	10/01/24	Test 2	Numericals	Regular lectures				
Subject Coordinator: Saira Ajay Thampy			<i>Saira Ajay Thampy</i>			Ar. Satish Dhale Principal		

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<b>LESSON PLAN</b>	<b>First Year B. Arch.</b>	<b>SESSION</b>	<b>2023-24</b>	<b>SEMESTER</b>	<b>01</b>
Subject: <b>ARD (GRAPHICS) Division - A</b>		Faculty: Prof. Varsha Annadate, Prof. Sangam Namwad			

Syllabus and Objective		Marking system			
	Syllabus and Objective	Sessional	External Viva-voce	Theory Paper	Credits
	<p><b>Graphics Syllabus</b>                      Studio work culture pencils, instruments, table, etc.                      Plane geometry &amp; solid geometry orthography                      Drawing a building understanding thicknesses and hollows; plans, sections, elevations</p> <p><b>Freehand</b>                      Memory left brain creativity                      Objects taking things apart/ reassembly</p> <p><b>Workshop</b>                      Building skills studio work culture; instruments, tabletop; cutting, joining, shaping                      Materials and media installations assembly</p> <p><b>Course Objectives:</b>  <b>To acquaint students with</b></p> <ul style="list-style-type: none"> <li>• Free hand drawings, various graphical symbols to represent building materials</li> <li>• Scales, their ratios and application.</li> <li>• Architectural lettering, dimensioning techniques</li> <li>• Orthographic projections.</li> <li>• 3-dimensional views of geometrical forms.</li> </ul>		-----	-----	6
					150
					Teaching Schedule
			Lectures per week	Students per week	No. of weeks
			-----	4	13
		Periods of 50 minutes each			Total

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Teaching Program

Sessions	Date	Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/Tests/Remedial lectures (Expected output)	Date of submission of Assignments/Tests/Remedial lectures	Output Achieved from Assignments/Tests/Remedial Lectures
1	10-10-2023	Introduction	Prof. Varsha Annadate. Introduction to ARD syllabus. Importance of drawing/sketching. Drawing lines – free hand in sketch book.	In studio lecture, with sheet and drafting instruments	Rendering with Pen and Ink by W. B. Gill	Line work in A4 SIZE sketch book	12-10-2023	
2	12-10-2023	Line work	Prof. Sangam Namwad, Prof. Varsha Annadate Linework – Freehand drawing of 1. Zig-zag and wavy lines. 2. Geometric shapes Introduced drawing Spirals.	Lecture and blackboard	Engineering Drawing by N.D. Bhatt	Two A2 sheets – Freehand lines and Drafted lines	19-10-2023	
3	17-10-2023	Line work	Prof. Sangam Namwad Mounting of sheets, Use of instruments, Drawing lines using instruments. 2-D design using lines.	Lecture/ blackboard and drafting work in studio		A2 sheets – Freehand lines and Drafted lines	26-12-2023	Establish correlation between eye-mind-hand. Improve control on drawing lines with required length, intensity, thickness free-hand and using instruments.
4	19-10-2023	Lettering	Prof. Varsha Annadate, Prof. Sangam Namwad Method of architectural lettering (simple block letters), guidelines, sizes, fonts.	Lecture/ blackboard and drafting work in studio	Engineering Drawing by N.D. Bhatt	Lettering on graph paper for practice and A2 size sheet for submission	31-10-2023	Lettering in sketch book. Writing in simple block letters of different font size for improving presentation skill.
5	24-10-2023	HOLIDAY	DUSSEHRA			...	---	----
5	26-10-2023	Scales	Prof. Varsha Annadate Types of lines and its applications. Graphical representation of materials. Introduction to the basic concept of scale, use and application of different types of scales- enlarged/reduced.	Lecture/ blackboard and drafting work in studio		Submission of line work. Scales.	31-10-2023	Set of A2 sheets for line work – freehand, drafted. Spirals.
6	31-10-2023	Scales	Prof. Varsha Annadate, Prof. Sangam Namwad Enlargement of irregular shapes using grid method. Introduction of sketching exercises.	Lecture/ blackboard and drafting work in studio		A2 sheet for grid method.	02-11-2023	A2 sheets Understanding of different scales for different types of drawings. Helps in

31-10-2023  
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7	02-11-2023	Geometrical Construction	<b>Prof. Sangam Namwad</b> Equal division of lines, angle bisection, Parallel lines, Perpendicular to a line.	Lecture/ blackboard and drafting work in studio	A2 size sheet for submission	07-11-2023	developing visual scale and visualization.
8	07-11-2023	Geometrical Construction	<b>Prof. Varsha Annadate</b> Polygons construction, circle inscribed /circumscribed	Lecture / blackboard teaching and drafting work in studio	A2 size sheet for submission	09-11-2023	Graphical method of drawing geometrical shapes, division of line, using instruments.
9	09-11-2023	Freehand sketching	<b>Prof. Sangam Namwad</b> Human Anthropometry, figures, vegetation-types, Vehicles - types.	Lecture and blackboard teaching	A2 size sheets for assignments during Diwali break for submission	28-11-2023	Improve sensitivity towards scale, proportions. Improve observation and cognitive skills.
10	28-11-2023	Freehand sketching	<b>Prof. Sangam Namwad</b> Building elements, Spaces like plazas, memory drawing.	Blackboard teaching	Sketches in Sketch book	05-12-2023	
11	30-11-2023	Freehand sketching	<b>Prof. Sangam Namwad</b> Building elements, Spaces like plazas- outdoor sketching.	Lecture and sketching in outdoors/ studio	Sketches in Sketch book		
12	05-12-2023	Brain teaser exercises	<b>Prof. Sangam Namwad</b> Observation, Narrations, doodling.	Studio work	Sketches in Sketch book	05-12-2023	
13	07-12-2023	Remedial Session	Studio for completion of work and doubt solving.	Lecture and drafting work in studio	A2 size sheets for submission	12-12-2023	
14	12-12-2023	Orthographic Projections	<b>Prof. Varsha Annadate</b> Orthographic projections of lines, planes.	Lecture, blackboard teaching and drafting work in studio	A2 size sheets for submission	14-12-2023	
15	14-12-2023	Orthographic Projections	<b>Prof. Varsha Annadate, Prof. Sangam Namwad</b> Orthographic projections of simple solids- cuboid, cylinder, Hexagonal and Triangular Prisms.	Lecture, blackboard teaching and drafting work in studio	A2 size sheets for submission	21-12-2023	

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16	19-12-2023	3 D views	<b>Prof. Varsha Annadate</b> Surface development, Isometric, axonometric, oblique	Lecture, blackboard teaching and drafting work in studio		A2 size sheet for submission	26-12-2023		
17	21-12-2023	Orthographic Projections	<b>Prof. Varsha Annadate, Prof. Sangam Namwad</b> Orthographic Projections- cone, pyramid, hexagonal and triangular pyramid Surface development And Isometrics	Lecture, blackboard teaching and drafting work in studio		A2 size sheet for submission	26-12-2023		
18	26-12-2023	3 D Visualization	<b>Prof. Sangam Namwad</b> Visualizing different 3 D options from Plan and elevation given.	Studio		Sketches	26-12-2023		
19	28-12-2023	Orthographic Projections for cut objects	<b>Prof. Varsha Annadate,</b> Concept of sections- sections through simple solids, intensity of lines of sectional surface and isometrics.	Lecture, blackboard teaching and drafting work in studio	Engineering Drawing by N.D. Bhatt	A2 size sheet			
20	02-01-2024	Orthographic Projections for cut objects	<b>Prof. Varsha Annadate, Prof. Sangam Namwad</b> Drawing plan, Elevations, sections and isometric view of an object ( complex object)	Blackboard teaching and drafting work in studio		A2 size sheet			
21	04-01-2024	Orthographic Projections for complex objects	<b>Prof. Varsha Annadate, Prof. Sangam Namwad</b> Drawing plan, Elevations, sections and isometric view of an object ( complex object)	Blackboard teaching and drafting work in studio.		A2 size sheet	09-01-2024		
22	09-01-2024	Orthographic Projections for complex objects	<b>Prof. Varsha Annadate, Prof. Sangam Namwad</b> Drawing plan, Elevations, sections and isometric view of an object ( complex object)	Blackboard teaching and drafting work in studio.		A2 size sheet			
23	11-01-2024	Remedial session	<b>Prof. Varsha Annadate, Prof. Sangam Namwad</b> Doubt solving and completion of sheets/ backlog				18-01-2024		
24	16-01-2024	<b>Test on Orthographic Projection</b>							
25	18-01-2024	<b>Final Portfolio submission</b>							
Subject Coordinator: Prof. Varsha Annadate								Ar. Satish Dhale Principal	

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**L E S S O N P L A N**

**First Year B. Arch. DIVISION A**

Subject teachers: Ar. Neha P & Ar. Aamod K

**SESSION**

**2023-2024**

**SEMESTER**

**I**

**Syllabus and Objective; Course Outcome (CO)**

**Marking system**

**SYLLABUS:**  
1. To be developed by individual colleges

**COURSE OUTCOME:**

Sessional

External Viva-voce

Internal

Credits

50

-

50

50

3

**Teaching Schedule**

Periods of 60 minutes each

Lectures per week

Studios per week

No. of weeks

Total

-

2

20

60

**Teaching Program**

S. No.	Date	Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/Te st/ Remedial lectures (Expected output)	Output Achieved from Assignme nts/Tests/ Remedial Lectures	Date of submissio n of Assignme nts/Tests/ Remedial lectures
1	13/10/23	Introduction		Interactive discussion				
2	20/10/23	Form Development	Task 01: Preparation of lantern based on the form developed from their own names.	Interactive discussion				
3	27/10/23	Form Development		Interactive discussion				
4	03/11/23	Form Development		Studio Work				
5	10/11/23							
6	17/11/23	Diwali Vacation						
					Form, Space, and Order - Francis D. K. Ching	Lantern Submission		03/11/23

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Diwali Vacation

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7	24/11/23						
8	01/12/23	Case Study presentation by Students	Task 02: Art Deco Building Case Study to be done in groups. Based on the Case Study to prepare an illustration painting of the building individually.	Interactive discussion	Illustration Submission	15/12/23	
9	08/12/23	Illustration		Studio Work			
10	08/12/23		Remedial Class				
11	15/12/23	Furniture Design	Task 3: In continuation with Task 02, students are to design furniture of a residential building inspired from the Art Deco building they studies in groups	Interactive discussion	Furniture Design Submission	29/12/23	
12	22/12/23	Furniture Design		Studio Work			
13	29/12/23	Furniture Design		Studio Work			
14	05/01/24		Elective Week				
15	12/01/24		Pinnacle Week				
16	19/01/24		Final Portfolio Submission				
<p><b>SUBJECT COORDINATORS:</b></p> <p>By Ar. Neha P &amp; Ar. Aamod K</p> <p style="text-align: right;"><i>(Signature)</i></p> <p><b>B.Arch. HOD – Prof. Kamakshi Vaidya -</b></p>							
<p><b>PRINCIPAL: Ar. Satish Dhale</b></p> <p style="text-align: right;"><i>(Signature)</i></p>							



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**L E S S O N P L A N**

<b>First Year B. Arch.</b>			
<b>Subject:</b> Allied Design studio 2	<b>Faculty:</b> Ar.Kamakshi, Ar. Priyanka, Ar.Anupama, Ar. Saharsha	<b>SESSION</b>	<b>SEMESTER</b>
		2023-24	2B

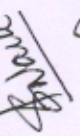
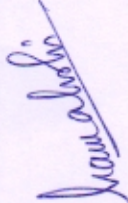
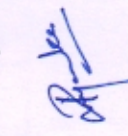

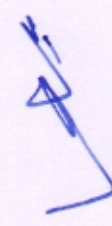
Syllabus and Objective		Marking system			
Sessional	External Viva-voce	Theory Paper	Total Marks	Credits	
150	-	0	150	6	
Teaching Schedule					
Periods of 50 minutes each	Lectures per week	Studios per week	No. of weeks	Total	
	0	4	12	48	
<p>The course content will be developed by the individual colleges as per their choice of Allied Design scheme. The schemes may include Visual Studies, Basic Design, Graphic Design, Product Design, Furniture Design, Design of Outdoor Spaces Visual Field &amp; Practices (given as an example) Visual practices visual compositions using real world materials Similarity &amp; self-similarity understanding diversity Natural &amp; artificial forms/colors/textures; inherent/applied</p> <p>CO1- The students should be able to appreciate the visual design elements such as points, lines, planes, shapes, forms, space, color and texture.</p> <p>CO2-The students should understand principles of designs like contrast, scale, proportion, rhythm etc.</p> <p>CO3- The students should understand principles of similarity and self-similarity.</p> <p>CO4- Students should demonstrate space making through the basic elements of design and principles of composition.</p> <p>CO5-Students should be exposed to sources of inspiration for bringing out creativity.</p> <p>CO6-The students should be able to understand the application of principles of design like Balance, Movement, Rhythm, Proportion, Scale, and Harmony in three-dimensional composition.</p> <p>CO7 - The students should be able to articulate the priorities of the objectives of design: aesthetics, order, efficiency and economy.</p> <p>CO8 - The students should be able to orient the study of Architecture as a design discipline.</p>					
<b>Teaching Program</b>					

Week	Date	Topic to be taught with name of faculty teaching the topic	Sub-Topics	Methodology of Teaching Books, Journals, etc. to refer Topics for Assignment / Test/Remedial lectures (Expected output)	Books, Journals, etc. to refer	Topics for Assignment / Test/Remedial lectures (Expected output)	Date of the submission for Assignment / Test/Remedial lectures	Outputs achieved from the Assignment / Test/Remedial lectures
1	Week 1 - 13/02/2024 & 15/02/2024	Introduction to the syllabus and brush up of work done in previous syllabus		Discussion				
2	Week 2 - 20/02/2024 & 22/02/2024	Positive and negative composition	Draw a composition and explore half as positive and half as negative	Discussion and studio work	Working on sheet		5-3-2024	CO1,CO2,CO3,CO4,CO5,C06,CO7,CO8 <b>20 MARKS</b>
3	Week 3 - 27/02/2024 & 29/02/2024	Positive and negative solid voids composition	Draw the skyline of the city.	Discussion and studio work	Working on sheet.		7-3-2024	CO1,CO2,CO3,CO4,CO5,C06,CO7,CO8 <b>10 MARKS</b>
4	Week 4 - 05/03/2024 & 07/03/2024	Marking & Backlog completion	Doubt solving and completing pending work	Discussion and studio work				
5	Week 5 - 12/03/2024 & 14/03/2024	Scale	Understanding scale – Design a kid's interactive sculpture in a garden in a space of 3m x 5m.	Discussion and studio work	Working on model. 1:50 scale.		26-3-2024	CO1,CO2,CO3,CO4,CO5,C06,CO7,CO8 <b>20 MARKS</b>

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6	Week 6- 19/03/2024 & 21/03/2024	Mass and proportion	Exploring 3D shapes with cubes. Composing the same in 3d form. Making cubes of various size in 3cm to 15cm and make a composition.	Discussion and studio work	Working on model.	28-3-2024	CO1,CO2,CO 3,CO4,CO5,C 06,CO7,CO8  20 MARKS
7	Week 7- 26/03/2024 & 28/03/2024	Marking & Backlog completion	Doubt solving and completing pending work	Discussion and studio work			
8	Week 8- 2/04/2024 & 4/04/2024	Color	Color Wheel & Color schemes Creating colored versions of the composition made for positive negative.	Discussion and studio work	Working on sheet	23-4-2024	CO1,CO2,CO 3,CO4,CO5,C 06,CO7,CO8  20 MARKS
9	Week 9- 16/04/2024 & 18/04/2024	Abstraction	a) Selecting a photograph and creating an abstract version of it.	Discussion and studio work	Working on sheet	25-4-2024	CO1,CO2,CO 3,CO4,CO5,C 06,CO7,CO8
			a) Then coloring it in various schemes.				
10	Week 10- 23/04/2024 & 25/04/2024	Marking & Backlog completion	Doubt solving and completing pending work	Discussion and studio work			10 MARKS-a  20 MARKS-b
11	Week 11	Texture	a) Composition for mural	Discussion and studio work	Working on	7-5-2024	CO1,CO2,CO

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30/04/2024 & 2/05/2024	to explore texture for wall (Group)	work	Model	3,CO4,CO5,C 06,CO7,CO8 20 MARKS
12	b) Up-cycling waste to explore texture	Discussion and studio work	10 MARKS	
<p><b>Subject Coordinator:</b>                  Ar.Kamakshi ,Ar. Priyanka, Ar. Anupama, Ar. Saharsha                          Principal: Ar. Satish Dhale  </p>				



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## LESSON PLAN

**Second Year B. Arch. Div - A & B**

Faculty: Ar.M.Nasir,Ar.Moses,Ar.Pooja,Ar.Kajal

Subject: Humanities

**SESSION 2023-24 SEMESTER II**

Syllabus and Objective		Marking system			
Sessional	External Viva-voice	Theory Paper	Total Marks	Credits	
50	-	50	100	4	
Teaching Schedule					
Periods of 1hr each	Lectures per week	Studios per week	No. of weeks	Total	
1	0	11	10hr		

Teaching Program								
Week	Date	Topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Assignment (Expected output)	Date of submission	Output achieved
1	05-02-2024 09-02-2024	Introduction	Introduction of Syllabus	Lecture/Discussion	A History of Architecture by Banister Fletcher's	Sketch		
		Semester Assignments	Introduction to the Semester Assignments	Discussion	A History of Architecture by Banister Fletcher's	Sketches & Illustrations		
2	12-02-2024	History of art culture &		Lecture (PPT)	A History of Architecture by	Sketchbook Assignment		

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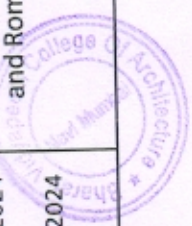
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	16-02-2024	aesthetics			Banister Fletcher's			
		History of art culture & aesthetics		Lecture (PPT)	A History of Architecture by Banister Fletcher's	Sketchbook Assignment		
3	19-02-2024 23-02-2024	Society, Context, Aesthetics, Architecture	Society, Context	Lecture (PPT)	A History of Architecture by Banister Fletcher's	Sketchbook Assignment		
		Society, Context, Aesthetics, Architecture	Aesthetics			Sketchbook Assignment		
4	26-02-2024	Prehistory, Paleolithic and Neolithic Cultures,	Prehistory	Lecture (PPT)	A History of Architecture by Banister Fletcher's	Models		
5	01-03-2024	Prehistory, Paleolithic and Neolithic Cultures,	Paleolithic and Neolithic Cultures		A History of Architecture by Banister Fletcher's	Sketchbook Assignment		
6	04-03-2024 08-03-2024	River Valley Civilizations						
7	11-03-2024 15-03-2024	Classical Greece and Rome	Classical Greece	ATTESTED TRUE COPY	A History of Architecture by Banister Fletcher's	Sketchbook Assignment		

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Assignment Introduction									
8	18-03-2024 22-03-2024	Classical Greece and Rome	Rome				Model		
9	25-03-2024 29-03-2024	Vedic Culture, Kingship in India, Hellenistic influences	Vedic Culture				Sheets		Sketchbook submission
10	01-04-2024 05-04-2024	Vedic Culture, Kingship in India, Hellenistic influences	Kingship in India				Sheets		Sketchbook submission
11	08-04-2024 12-04-2024	Buddhism and Jainism	Buddhism				Model		
12	15-04-2024 19-04-2024	Buddhism and Jainism	Jainism				Model & Sketchbook Assignment		
13	22-04-2024	Prefinal Submission					Sketchbook Assignment Submission		
14	26-04-2024	Final Submission							

Assignments :

- Assn 1 – Sketches & Illustrations – CO1 & CO2, CO3, Assn 2 – Collage Making – CO1 & CO2, CO3
- Assn 3 – Art & Culture & Sheet Assignment – CO1 & CO2, CO4 Assn 4 – Sketches & Illustrations – CO4, CO5, CO6
- Assn 5 – Model Making - CO1 & CO2, CO3

Subject Coordinators :




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LESSON PLAN		First Year B. Arch. DIV B				
Subject: EVS	Faculty: Ar. Julli Satish Puri & Ar. Prajwal Patil	SESSION	2023-2024	SEMESTER		
Syllabus and Objective		Marking system				
<b>OBJECTIVE</b>	Study the effect of architectural development on natural resources. Effects of architectural development on natural resources.	Sessional	Theory Paper	Credits		
		50	-	2		
<b>CONCEPTS</b>	Concepts of sustainable development Renewable resources Water cycle and its management Conservation and generation of energy	Teaching Schedule				
		Periods of 120 minutes (about 2 hours) each	Lectures per week	Studios per week	No. of weeks	
			1	-	10	20 HRS

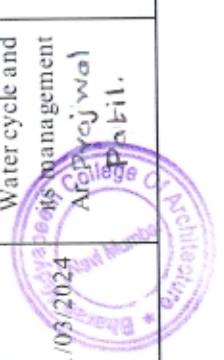
CO1	The students should integrate the effect of architectural development on natural resources
CO2	The students should get the knowledge of sustainable development and renewable resources
CO3	Students should gain knowledge of the water cycle and its management
CO4	Students should relate the importance of conservation and generation of energy
CO5	Students should get knowledge of energy conservation strategies and the importance of renewable resources.
CO6	Students should integrate the need for the conservation of water and strategies for the same.

Teaching Program						
Week	Topic to be taught with the name of Faculty teaching the topic	Methodology of Teaching	Books, Journals, Assignment/Test/Remedial etc. to refer	Topics for Assignment/Test/Remedial lectures (Expected output)	Date of submission of Assignments/Tests/Remedial lectures	Output Achieved from Assignments/Tests/Remedial Lectures



  
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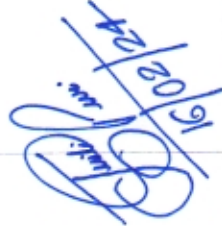
15/02/2024	Introduction to the Syllabus for EVS – Ar. Juili Satish Puri & Ar. Prajwal Patil	Site Analysis - Book Reading exercise	Studio Discussion	1. Site Analysis – By Edward White 2. Green Building Illustrated – D.K.Ching 3. Sustainable Construction	Reading Book Activity	29/02/2024	CO1
22/02/2024	Concepts of Sustainable Development - Ar. Juili Satish Puri	Three R's principles Indicators of Sustainable development Governing Bodies for assessment Case Studies	PPT Presentation		Class notes and relevant case studies research for AD project	14/03/2024	CO1, CO2
29/02/2024	Working studio for completion of assignments	Book review/Summary & Case Studies Research	Studio Discussion	By – Charles Kibert 4. Frank Lloyd Wright: Natural Design, Organic Architecture e: Lessons for Building Green	Class notes and relevant case studies research for AD project	28/03/2024	CO1, CO2
7/03/2024	Renewable resources Ar. Juili Satish Puri	Study of materials and Construction techniques – to be incorporated in Architectural Design.	PPT Presentation				
14/03/2024	Working studio for completion of assignments	Class notes and relevant case studies research for AD project.	Studio Discussion	Sustainable Architecture	Class notes and relevant case studies research for AD project	28/03/2024	CO3, CO6
21/03/2024	Water cycle and resource management Ar. Prajwal Patil.	Water as a resource and its conservation and strategies for	PPT Presentation				

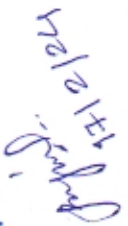


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			rainwater harvesting.									
7 & 8	28/03/2024	Working studio for completion of assignments	Report production for each topic with class notes.	Studio Discussion	5. Building Reuse: Sustainability, Preservation, and the Value of Design – By Kathryn Merlino							
	4/04/2024	Conservation and generation of energy Ar. Prajwal Patil	Energy as a resource and its conservation and renewable energy with relevant case studies.	Theory Notes /PPT Presentation								
9 & 10	11/04/2024	Remedial Classes/Doubt clearing sessions	Working studio for Updating/completion of assignments	Studio Discussion								
	18/04/2024	<b>FINAL PORTFOLIO SUBMISSION</b>										

<p>Subject Coordinator:</p> <p>Faculty: Ar. Juili Satish Puri</p> <p>Ar. Prajwal Patil</p>	<p style="text-align: center;"><b>HOD: Prof. Kamakshi Vaidya</b></p> <p style="text-align: center;"><b>Prof. Satish Dhale</b> Principal</p>
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 16/04/2024

  
 11/04/2024



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## Bharati Vidyapeeth College of Architecture

### L E S S O N P L A N

Second Year B. Arch. A/B/C	
S E S S I O N	S E M E S T E R
2023-24	4
Marking System	
External Viva-voice	Theory Paper
100	n/A
Total Marks	200
Credits	8
Teaching Schedule	
Lectures per week	No. of weeks
3	15
Total	90
Periods of 60 minutes each	3

**Subject: Architectural Design**  
**Faculty:** Ar. Suchita, Ar. Neha J, Ar. Tushar, Ar. Tejaswini HM, Ar. Ankita K, Ar. Justin T, Ar. Bhavika J, Ar. Yogita K, Ar. Pooja P, Ar. Nikhil B, Ar. Anandil L, Ar. Anupama K.

**Objectives:**

- To develop research skills for survey research and case study.
- To understand functioning of community spaces in rural areas/semi urban areas
- To study principles of design, construction, and technology based on tradition and experience.

**Course Objectives:**

**CO1:** Students will be able to find out and select attributes of Architectural character through application of indigenous material, construction technology from the documentation of a settlement in different regional and climatic context.

**CO2:** Students will be able to comprehend site specific stimuli through responses to physical, climate, visual, cultural contexts from the documentation of a settlement in different regional and climatic contexts.

**CO3:** Students will be able to apply zoning, activity distribution, circulation and activity relationships to multiple layering of architectural space

**CO4:** Students will be able to analyze passive solar responses and fenestration design from settlement study to test them in their own designs.

**CO5:** Students will be able to appraise function and space studies as well as defined user group specific perception of space and compare it with their own design solutions

**CO6:** The course should prepare the students to develop their own suitable design language for architectural design of multicellular, multiple level spaces by application of principles of functionality, climate, composition, and aesthetics.

**CO7:** Analyze the operational atmosphere of the vertical studio involving students in their fourth semester.

**CO8:** Acquire the necessary graphic abilities and presentation techniques (including modeling and rendering) to effectively illustrate the concepts within a design

### Teaching Program

Week	Date	Topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Assignment (Expected output)	Date of submission	Output achieved
1	26/12/2023 To 29/12/2023	Introduction to Second year (SEM-IV) design	1. Syllabus Introduction 2. Research on Community Development	Studio	Various online sources	Pre studies	-	-
2	02/01/2024 to 05/01/2024			Elective Week				
3	09/01/2024 to 12/01/2024			Pinnacle Week				

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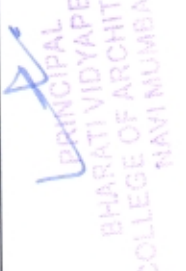


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		Lecture							
4	16/01/2024 to 19/01/2024	Topic Introduction						Report on community development	19/01/2024
5	23/01/2024 to 26/01/2024	Site visit at velas		Visit					
6	30/01/2024 to 02/02/2024	Documentation work on study tour		Studio discussions with Faculty				Tour documentation	02/02/2024
7	06/02/2024 to 09/02/2024	Site Analysis	Site Analysis marking	One on one discussions				Site Analysis submission	09/02/2024
8	13/02/2024 to 16/02/2024	Site Zoning	Case study Lecture	One on one discussions				Case study submission	13/02/2024
9	20/02/2024 to 27/02/2024	Single line plan discussion	Single line plan marking	One on one Jury and Feedback				Single line plan	27/02/2024
10	01/03/2024 to 05/03/2024	Discussion on plans	Double line plan discussion	One on one discussions				Individual Presentation	All design days
11	12/03/2024 to 15/03/2024	Double line plan marking	Discussion and Cross jury marking	One on one discussions				Double line plan	12/03/2024
12	19/03/2024 to 22/03/2024	Discussion on Sections and Elevations	All floor plans	One on one discussions				Sections and Elevations	22/03/2024
13	26/03/2024 to 29/03/2024	Pre-final 1	Internal Cross Jury and marking	One on one discussions				Pre-final 1	26/03/2024
14	02/04/2024 to 05/04/2024	Pre-final 2	Jury and marking	One on one jury and feedback				Pre-final 2	02/04/2024
15	09/04/2023	Final Portfolio submission	All floor plans, elevations and sections, views and model					Final Submission	09/04/2023
<b>NBC, Time-savers standards, Neufert's, &amp; various online sources</b>									
Subject Coordinator: Ar. Suchita, Ar. Neha J, Ar. Tushar, Ar. Tejaswini HM, Ar. Ankita K, Ar. Justin T, Ar. Bhavika J, Ar. Yogita K, Ar. Pooja P, Ar. Nikhil B, Ar. Anand L, Ar. Anupama K.									
Ar. Satish Dhale Principal									

  
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**ANUPAMA K.**

  
**ANUPAMA K.**

Subject: <b>ALLIED DESIGN                  (Interiors)</b>	Faculty: Ar. Ankita K., Ar. Prachi R., Ar. Pooja P.		SESSION	2023-2024	SEMESTER	4th
			100	-----	-----	100

Syllabus and Objective		Marking system				
Sectionals	External/Viva-voce	Theory Paper	Total Marks	Credits		
				100	-----	100
<p>Understanding the perspective of commercial spaces in the Interior premises of a particular space with a detailed study of all drawings required to present any interior execution.</p> <p>Learning various representation techniques for different layout along with basic understanding of anthropometrics. Learning and understanding the relation of furniture's with respect to the space provided. Learning and analyzing various color schemes used in the commercial interiors.</p> <p><b>CO1-</b> To help the students comprehend the many criteria, functional elements, and aesthetics of commercial interiors</p> <p><b>CO2-</b> To gain knowledge on how to creatively transform commercial places through space planning, design theory, and a smart, reactive design approach.</p> <p><b>CO3-</b> To develop representative abilities through routine studios and from a design faculty that emphasizes freehand drawing, technical drawing, and model production.</p> <p><b>CO4-</b> To develop their ability to adhere to the design brief given to them while analyzing space requirements, choosing the best furniture placement, and creating useful, secure, and visually beautiful spaces.</p> <p><b>CO5-</b> To investigate purposeful spatial interactions and comprehend user behavior that may benefit people.</p>		Lecture per week	3	3	18	54
		Periods of 60 minutes each	-----	-----	-----	-----

Teaching Program								
Week	Date	Topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Assignment (Expected output)	Date of submission	Output achieved
1	28.12.2023	Introduction, Site Introduction & Site Measurement	Design Brief	Offline Lecture		Final Theme Selection	18.01.2024	Introduction and understandings for commercial spaces

Elective Week & Pinacle (2<sup>nd</sup> January to 12<sup>th</sup> January)

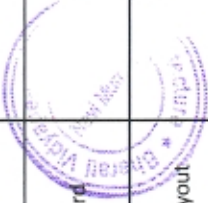


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2	16.01.2024	Discussion project	Introduction to Topic	Offline lecture			Learning's for design dev. of commercial spaces
3	19.01.2024	Theme Selection	Concept	Online lecture	Neufers		Finalization of themes
4	23.01.2024	Case Studies	Online case study	Microsoft teams, Videos/Presentation/Sketches		02.02.2024	Reviewed Discussion
Republic Day Holiday (26 <sup>th</sup> January 2023)							
5	30.01.2024	Case Studies+ Presentation	Offline case study	Microsoft teams, Videos/Presentation/Sketches			Better understanding of commercial unit spaceplanning
6	01.02.2024	Case Studies + Presentation	Presentation	Microsoft teams, Videos/Presentation/Sketches			Better understanding of commercial unit spaceplanning
7	06.02.2024	Marking for above sheets		Microsoft teams, Videos/Presentation/Sketches			Better understanding of commercial unit Space planning
8	08.02.2024	Existing site plan	Measuring site dimensions of college cafeteria	Explaining			Review on toone
9	13.02.2024	Draft of Site plan	Studio Discussion	Videos/Presentation/Sketches			
10	15.02.2024	Concept/Theme /Style	Finalization	Videos/Presentation/Sketches		20.02.2024	
11	20.02.2024	Mood Board	Finalization	Videos/Presentation/Sketches			
12	22.02.2024	Furniture Layout	Discussion	Videos/Presentation/Sketches			

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	27.02.2024	Furniture layout	Finalisation of layout	Videos/Presentation/Sketches			Individual Discussion
13	27.02.2024	Furniture layout	Finalisation of layout	Videos/Presentation/Sketches			Individual Discussion
14	29.02.2024	Floor Design, Reflected False ceiling layout	Floor pattern and ceiling materials	Videos/Presentation/Sketches		Progressive drawings	Individual Discussion
15	05.03.2024	Electrical layout	Finalization of layout	Videos/Presentation/Sketches		Final Drawing	Individual Discussion
16	07.03.2024	Sectional Elevations	Pre-Final Portfolio	Videos/Presentation/Sketches			Individual Discussion
17	12.03.2024	Furniture detailing	Representation of all detailed rendered furniture layout	Videos/Presentation/Sketches	Rendering with pen & ink	Final sketches	Review meeting 05.03.2023
18	14.03.2024	Views	3d sketches	Videos/Presentation/Sketches		Final sketches	Individual Discussion
19	19.03.2024	Views	3d sketches	Videos/Presentation/Sketches		Final sketches	Individual Discussion
20	21.03.2024	Pre-final Jury	Portfolio	Portfolio submission		Pre-Final Drawings	Portfolio 29.03.2024
21	25.03.2024	Discussion on finalization of drawings	Portfolio	Presentation/drawings		Final Drawings	Portfolio 05.03.2024
22	26.03.2024	Pre-Final Portfolio	Portfolio				
23	28.03.2024	Pre-Final Portfolio	Portfolio				
24	02.04.2024	Final Portfolio	Portfolio	Portfolio submission			Final portfolio
25	04.04.2024	Final Portfolio	Portfolio	Portfolio submission			Final portfolio

Subject Coordinator:

  
 Ar. Ankita K., Ar. Prachi R., Ar. Pooja P

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 Principal



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Subject: Theory and Design of Structures IV	Faculty: Dr .Deepak Patil	Session : I	Sem: IV (Div.A,B,C)	Second Year B.Arch	
(Academic Year 2023-2024)					
<b>Syllabus and Objective</b>		<b>Marking System</b>			
<p><b>Syllabus:</b></p> <p>1) Analysis of short and Long columns using Euler's and Rankine's theories. 2) Analysis of Fixed beams-Advantages and disadvantages , Determinations of negative and positive bending moment 3) Analysis by Moment Distribution method- Two span and three span beams with UDL and Pont load. 4) Introduction to steel structures – Basic information of different steel sections used as structural members. 5)Introduction to soil mechanics 6)Material testing – Cement, Aggregate, Concrete</p>	<p><b>Objectives:</b></p> <p>1) Understanding basic theories and principles of structures 2) Understanding properties of materials relevant to structures. 3) Understanding behavior of structural elements.</p>	Sessional	Theory	Total Marks	Credit
		50	50	100	03(T2+S1)
		<b>Teaching Schedule</b>			
		Periods of 50 minutes each	Lectures per week	Studios per week	No.of weeks
		02	02	18	<b>TOTAL</b>
					36
<b>Course Outcomes (CO's)</b>		<p><b>CO1:</b>Students able to understand concept of compression member i.e. short &amp; long columns using Euler's and Rankine's theory</p> <p><b>CO2:</b> Learning different types of supports and their behaviour. Study of advantages of fixed support over other supports and its understanding through SFD and BMD.</p>			



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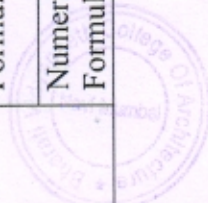
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	<p><b>CO3:</b> Conceptual understanding of 2D and 3D structures and analysis of continuous beams using MDM moments. Understanding the concept of sway and non-sway frames and its application.</p> <p><b>CO4:</b> Application of steel in structures. Studying steel table and different steel sections used as structural members. Performance of long and short span steel structures.</p> <p><b>CO5:</b> Students able to understand the importance of soil mechanics in structures. Study of different soil properties and its correlation with performance of structures.</p> <p><b>CO6:</b> Experimental investigation of properties of material like coarse aggregate, concrete, tiles etc.</p>
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**Teaching Program**

Week	Date	Topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Assignment (Expected output)	Date of submission	Output achieved
1	26/12/23	Introduction to TOS IV	Review of TOS III	Virtual	1) Analysis of Structures - Vazrani & Ratwani, 2) Analysis of Structures - Bhavikatti	Understanding the concepts of stresses, strains, forces and moments	--	Conceptual understanding of stresses and strains and behavior of structural elements
	26/12/23		Introduction to basics of structures					
2	28/12/23	Unit I: Analysis of short column & Long column	Introduction to behavior of columns	Virtual		Understanding the behavior of compression member (column), concept of direct stresses and bending stresses due to eccentric loading.	30/01/24	Understood the concept of column behavior due to direct loads and eccentric loads. Solved numericals using Eulers and Rankines theory. Calculation of
	16/01/24		Analysis of columns using Euler's theory					
	16/01/24		Numerical on Euler's Formula					
	18/01/24		Numerical on Euler's Formula					

  
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3	23/01/24	Introduction to Rankine's theory of long and short column Numerical on Rankine's theory Numerical on Rankine's theory (Assignment No.1)			Finding the axial forces in column using Eulers and Rankines theory	load carrying capacity of columns.
	23/01/24					
	25/01/24					
4	30/01/24	Unit II: Analysis of fixed beams	Compete ncy based learning	Compete ncy based learning	Understanding the behavior of fixed beam and its performance compared to simply supported beam. Its analysis procedure	Conceptual understanding of behavior of fixed beam and its advantages. Understanding of first principle for analysis of fixed beam.
	30/01/24					
	06/02/24					
	06/02/24					
	08/02/24					
6	13/02/24	Analysis of fixed beam with UDL over entire span and drawing SFD BMD and net BMD	Compete ncy based learning	Compete ncy based learning	ATTESTED TRUE COPY	
	13/02/24					
	13/02/24					



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	15/02/24		Numericals on FB with Point load	Problem based learning				
7	20/02/24		Numericals on FB with Point load (Assignment No.2)	Problem based learning				
	20/02/24	Unit III: Analysis by Moment Distribution Method	Introduction to MDM and its application in analyzing continuous beam	Competency based learning	Understanding the behavior of continuous beam and its analysis using moment distribution method. Its application in structures and performance of continuous beams	12/03/24		Understood the Hardy cross method for analyses of continuous beam. Students able to analyze a two span continuous beam with point load and UDL over entire span.
	22/02/24		Analysis of two span continuous beam with point loads: Numericals					
8	27/02/24		Analysis of two span continuous beam with point loads: Numericals					
	27/02/24		Analysis of two span continuous beam with UDL: Numericals	Competency based learning				
	29/02/24		Analysis of two span continuous beam with UDL: Numericals	Problem based learning				
9	05/03/24		Analysis of two span continuous beam with UDL and point load: Numericals	Problem based learning				
	05/03/24		Analysis of two span continuous beam with UDL and point load: Numericals	Problem based learning				

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	07/03/24		Analysis of two span continuous beam with UDL and point load: Numericals	Design thinking				
10	12/03/24		Assignment No.3	Problem based learning				
11	12/03/24		Introduction to steel sections available in market	Problem based learning				28/3/22
	14/03/24		Introduction to different types steel structures i.e. residential, commercial bridges etc.	Design thinking			Understanding types of steel sections available in market and its properties and applications. Behavior of steel elements and composite structures	
	19/03/24		Introduction to different types steel structures i.e. residential, commercial bridges etc.	Competency based learning				
	19/03/24		Advantages of steel structures over concrete structures	Competency based learning				
12	21/03/24		Assignment No.4	Competency based learning				
13	26/03/24		Importance of soil mechanics in Architecture and engineering	Competency based learning				02/04/24
	26/03/24		Classification of soil and its properties	Design thinking			Understanding the properties of soil, its bearing capacity and type of foundation	

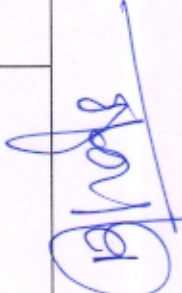

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	28/03/24		Assignment No.5	Competency based learning		used based on type of soil		adopted and its depth depending upon the nature of soil.
14	02/04/24	<b>Unit VI: Material Testing</b>	Introduction to laboratory investigation of slump cone test and compressive strength of concrete	Competency based learning		Understanding the strength parameters of cement, sand, aggregates and tiles bricks and its properties	07/04/24	Understood how to investigate the strength of different construction materials and methodology to make these element more stiffer and stronger
	Introduction to laboratory investigation of fineness modulus and crushing test of coarse aggregates		Competency based learning					
	(Assignment No.6)		Design thinking					
	05/04/24							
<b>Subject Coordinator :</b>  <b>Dr. Deepak Patil</b>								
<b>Ar. Satish Dhale</b>  Principal								



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# CharatiVidyapeeth College of Architecture

**LESSON PLAN**

**Subject: Architectural Building Construction**

Faculty: Prof. Harshada, Prof. Nikhil, Prof. Madhura

**Third Year B. Arch.**

**SESSION**

**2023-24**

**SEMESTER**

**06**

**Syllabus and Objective**

**Syllabus**

**R.C.C Floor system for large bay sizes**

- Flat Slab Floor: Study of Plate slab, Plate slab with drops, plate slab with drop and column capitals
- Floors in One – way and Two way ribbed slab, Waffle slab, Diagrid beam slab

**Precast and Prefab building elements in various materials**

- Precast floor system with R.C.C. beams, R.C.C. channels and infilling floor blocks of various materials
- Connections and assembly of various building elements (Prefab walls, beams, columns, staircase flights, floor units etc.

**Course Objectives-**

- CO1:** Introduce students to different floor slab construction for large bay sizes.
- CO2:** Student should know the application of Flat slab and its different types as per conditions.
- CO3:** Students should understand the configuration of Ribbed floor and its application.
- CO4:** Application of Prefab building elements and its materials.
- CO5:** Understanding the concept of Precast components and its infill materials.
- CO6:** Students should know the connection of Precast components with building elements.

**Marking system**

Sessional	External Viva-voce	Theory Paper	Total Marks	Credits
50	-----	50	50	4

**Teaching Schedule**

Lectures per week	Studios per week	No. of weeks	Total
2	2	16	64

Periods of 60 minutes each

**Teaching Program**

Week	Date	Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/ Test/ Remedial lectures (Expected output)	Date of submission of Assignments /Tests/ Remedial lectures	Output Achieved from Assignments/Tests/Remedial Lectures
1	28/11/23	Introduction to syllabus	Overview of topics, marking system	Lecture				
	30/11/23	R.C.C Floor system for large bay sizes	Introduction to the topic, comparison with RCC floor with small bay sizes, Effect on the depth of beams, available clear height etc. CO1, CO2	Discussion		Making models for different bay sizes	05/12/23	

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2	05/12/23	R.C.C Floor system for large bay sizes- Flat slab	Introduction to different R.C.C. floor systems for large bay sizes based on different loading conditions, building typology based on use of building, aesthetics etc.	Making models for different bay sizes, Experiments on model, Discussion and deriving solutions			
	07/12/23		Introduction to Flat Slab System- concept, benefits, limitations, thumb rules	Lecture and Board			
3	12/12/23	R.C.C Floor system for large bay sizes- Flat slab	Different types of flat slab- Study of Plate slab, Plate slab with drops, plate slab with drop and column capitals		Building Construction illustrated – Francis DK Ching	Report on – flat slab- concept, advantages, limitations, thumb rules, types	14/12/23
	14/12/23		Reinforcement details of flat slab			Sheet- showing key plan, key section, reinforcement details	26/12/23
4	19/12/23	R.C.C Floor system for large bay sizes- Flat slab	Studio				
	21/12/23		Studio				
5	26/12/23	R.C.C Floor system for large bay sizes- One way, Two way Ribbed slab, Waffle Slab	Introduction to Ribbed slabs- concept, benefits, limitations, thumb rules CO3				
	28/12/23		Different types of ribbed slabs			Report on – Ribbed slab- concept, advantages, limitations, thumb rules, types	
	02/01/24		Reinforcement details of Ribbed slab- one way two way			Sheet- key plan, key section, reinforcement details	23/01/24
6	04/01/24		Studio				

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7	09/01/24		CULTURAL ACTIVITIES						
	11/01/24		CULTURAL ACTIVITIES						
8	16/01/24		Studio						
	18/01/24		Studio						
9	23/01/24		Introduction, Benefits						
	25/01/24		Thumb Rules and reinforcement details					Case study on Flat Slab, Waffle slab, Diagrid slab	
	30/01/24		Case study on Flat Slab, Waffle slab, Diagrid slab- Presentation- CO3						
10	01/02/24		Studio- Diagrid sheet					Studio- Diagrid sheet	08/02/24
	06/02/24		Studio- Diagrid sheet						
	08/02/24		Remedial class						
	13/02/24		Remedial Marking						
12	15/02/24		Introduction to the topic- advantages/ disadvantages Basic elements of precast, different systems of precast construction- CO4					Plant-Cast Precast & Prestressed Concrete by David Sheppard	
	20/02/24		Precast flooring systems & details / Precast Walling systems & details					Precast Concrete Structures by Hubert Bachman	
13	22/02/24		Studio					Sheet Preparation	
	27/02/24		Sheet about the Rudimentary concepts of						

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L E S S O N P L A N

Subject: **Building Services-IV**

Subject teachers: Ar. Amitkumar D & Ar. Neha Pradhan

Third Year B. Arch. DIVISION A

SESSION

2023-2024

SEMESTER

VI

Syllabus and Objective; Course Outcome (CO)		Marking system			
Sessional	External Viva-voce	Theory Paper	Total Marks	Credits	
50	-	50	100	3	
Teaching Schedule					
<p><b>SYLLABUS:</b></p> <ol style="list-style-type: none"> <li>Fire protection- Study of fire regulations, Code of safety Combustibility and fire resistance of building materials. Design consideration for fire safety, Fire escape routes, Fire alarms and warning systems. System for fire protection and Firefighting. Water supply for Fire-fighting-Static tanks, Hydrants, Wet and dry riser, sprinklers. Services for high rise Buildings (Space and installation requirement)</li> <li>Services for high rise buildings Water supply for high rise buildings,</li> <li>Electrical distribution for high rise buildings</li> <li>Vertical transportation system - Lifts - carrying capacity and travel time, grouping of lifts- installation Escalators-Provision of space and installation requirement.</li> </ol> <p><b>COURSE OUTCOME:</b></p> <ul style="list-style-type: none"> <li><b>CO1:</b> Understand the significance of fire safety provisions in a habitable structure.</li> <li><b>CO2:</b> Develop the understanding and reasoning behind the fire safety rules and regulations enlisted in the National Building Code while also learning the technique to comprehend the guidelines.</li> <li><b>CO3:</b> Execute the learnings through application in a high-rise residential building and assessing the practicality of fire safety standards.</li> <li><b>CO4:</b> Study and analyze the prerequisites of services, particularly water supply in high-rise structures, the sourcing of water, the design of respective water distribution systems, the challenges encountered, and the safety concerns associated thereto</li> <li><b>CO5:</b> Study and analyze the prerequisites of services, particularly electrical supply and distribution in high-rise structures, the production of electricity, the municipal supply channels, the dissemination within buildings, the challenges encountered, and the safety concerns associated thereto</li> <li><b>CO6:</b> Grasp the knowledge of various vertical transportation systems available for high-rise structures, particularly lifts and escalators; comprehend the mechanisms involved, calculate the space requirements and reflect upon the application in design</li> </ul>	Lectures per week	Studios per week	No. of weeks	Total	
Periods of 60 minutes each	3	-	20	60	

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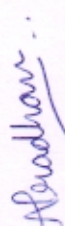
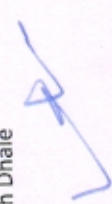
Teaching Program		Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/Tests/ Remedial Lectures (Expected output)	Output Achieved from Assignments/Tests/ Remedial Lectures	Date of submission of Assignments/Tests/ Remedial Lectures
1-2	29/11/23 - 30/11/23 & 6/12/23 - 7/12/23	Introduction – By Ar. Amit & Ar. Neha	<ul style="list-style-type: none"> <li>Significance of fire-fighting systems in high-rise structures</li> <li>Components/methods of fire-fighting systems</li> <li>NBC guidelines and norms</li> <li>Case Study – Different types of buildings</li> <li>Design consideration for fire-escape routes, fire alarms and warning systems</li> <li>Fire Resistant Materials and their rating</li> </ul>	Lecture and interactive discussion	National Building Code – 2016 (Volume 1 & 2)	<ul style="list-style-type: none"> <li>Case study presentations on fire-fighting systems in high-rise structures of different types (Group-work) (10 Marks)</li> <li>(CO1, CO2)</li> <li>Terminology used in firefighting/ fire safety (10 Marks)</li> <li>(CO1, CO2)</li> </ul>	<ul style="list-style-type: none"> <li>Report on types of water supply systems in high-rise buildings</li> <li>Problems in supply (10 Marks)</li> <li>(CO4)</li> </ul>	12/12/23
3-4	13/12/23 - 14/12/23 & 20/12/23 - 21/12/23	Fire Systems - Case Study	<ul style="list-style-type: none"> <li>Fire protection of buildings – By Ar. Amit &amp; Ar. Neha</li> </ul>	Case Study Presentation by students	Maharashtra Fire Prevention and Life Safety Measures Act-2006	<ul style="list-style-type: none"> <li>Report on materials (10 Marks)</li> <li>(CO1, CO2, CO3)</li> </ul>	<ul style="list-style-type: none"> <li>Report on types of water supply systems in high-rise buildings</li> <li>Problems in supply (10 Marks)</li> <li>(CO4)</li> </ul>	17/01/24
5	27/12/23 - 28/12/23	Fire protection of buildings – By Ar. Amit & Ar. Neha	College Fest					
6	10/01/24 - 11/01/24	Fire protection of buildings – By Ar. Amit & Ar. Neha	Remedial Class	Studio Work				
7	17/01/24 - 18/01/24	Water Supply systems – By Ar. Amit & Ar. Neha	<ul style="list-style-type: none"> <li>Systems of water supply in high-rise structures – Direct, Combined, gravity, Hydro-pneumatic systems</li> <li>Design considerations</li> </ul>	Lecture and discussion	MOHUA Guidelines for fire-safety	<ul style="list-style-type: none"> <li>Report on techniques of electrical supply in high-rise structures (10 Marks)</li> <li>(CO5)</li> </ul>	<ul style="list-style-type: none"> <li>Report on techniques of electrical supply in high-rise structures (10 Marks)</li> <li>(CO5)</li> </ul>	24/01/24
8	24/01/24 - 25/01/24	Electrical supply systems – By Ar. Amit & Ar. Neha	<ul style="list-style-type: none"> <li>Systems of electrical supply in high-rise structures - significance, distribution systems, problems</li> <li>Bus-bar trunking system</li> <li>Design considerations</li> </ul>	Lecture and discussion				
9-10	31/01/24 - 01/02/24 & 7/02/24 - 8/02/24	Electrical supply systems – By Ar. Amit & Ar. Neha						
11-12	14/02/24 - 15/02/24 & 21/02/24 - 22/02/24	Electrical supply systems – By Ar. Amit & Ar. Neha						

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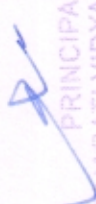
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NAVI MUMBAI



## Bharati Vidyapeeth College of Architecture

Remedial Class		Lecture and discussion	21/03/24	
13	28/02/24 - 29/02/24	Vertical transportation systems – By Ar. Amit & Ar. Neha	<ul style="list-style-type: none"> <li>Sheet on lift and escalator system details (10 Marks)</li> <li>(CO6)</li> </ul>	
14-15	6/03/24- 7/03/24 & 13/03/24 - 14/03/24	<ul style="list-style-type: none"> <li>Lifts and escalator systems – use, components, mechanism, etc.</li> <li>Design considerations</li> </ul>		
16	20/03/24- 21/03/24	REMEDIAL AND REVISION	<p style="text-align: center;">Class interaction and response throughout the course work (CO1, CO2, CO3, CO4, CO5, CO6)</p>	
17	27/03/24- 28/03/24	Class Test/ Pre -Final Portfolio Submission		
17-18	03/04/24- 04/04/24	Final Portfolio Submission		
<b>SUBJECT COORDINATORS:</b> By Ar. Amit D & Ar. Neha P 				<p style="text-align: center;">PRINCIPAL: Ar. Satish Dhale</p> 
<b>B.Arch. HOD – Prof. Kamakshi Vaidya -</b>				

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## Bharati Vidyapeeth College of Architecture, Navi Mumbai

### B. Voc Interior Design

<b>Code : 402</b>	<b>Subject: Interior Construction - 4</b>	<b>SESSION</b>	<b>2023-24</b>	<b>SEMESTER</b>
<b>Faculty : Prof. Sanskruti Rajhans, Prof. Saharsha Naik</b>		<b>Marking system</b>		
<b>Course Objective:</b> To equip the learner with various partitioning systems, false ceiling systems, false floors and means of construction, assembly and joinery through detailed working drawings.				
		Sessional	External Viva-voce	Theory Paper
		100	50	0
		Periods of 60 mins each	Lectures per week	Studios per week
			2	3
<b>Course Outcomes</b>				
			No. Of weeks	17

Time saver standard for Interior Design and space planning, McGraw Hill New Interior Design, Harry N. Adry Publishers.

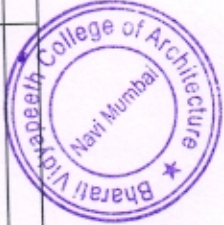
#### Teaching Program

Week	Date	Hours	Topics and Sub- Topics to be taught	Taught by -	Methodology of Teaching	Topics for Assignment/ Test	Date of submission	Marks for Assignments /Test
1	30.11.2023	1	Introduction to Syllabus	Sanskruti, Saharsha	Lecture			
2	4.12.2023	4	Introduction to Partitioning system	Sanskruti, Saharsha	Lecture, ppt, video, site visit	Case study - ppt - Partitioning system	7.2.2023	10
	7.12.2023	1	Case study - ppt - Partitioning system	Sanskruti, Saharsha	Lecture, ppt, video, site visit	Case study - ppt - Partitioning system	11.12.2023	
3	11.12.2023	4	Case study - ppt - Partitioning system	Sanskruti, Saharsha	Lecture, ppt, video, site visit			

	14.12.2023	1	Drafting of Partition system	Sanskriti, Saharsha	Lecture, ppt, video, site visit	sheet submission	25.12.2023	10
	18.12.2023	4	<b>HOLIDAY</b>					
4	21.12.2023	1	Drafting of Partition system	Sanskriti, Saharsha	sketches and details			
	25.12.2023	4	Drafting of Partition system	Sanskriti, Saharsha	sketches and details	Report on Partition system	28.1.2023	10
5	28.12.2023	1	Report on Partition system	Sanskriti, Saharsha	Lecture, ppt, video, site visit	Introduction to Model on Partition system	4.1.2024	10
	1.1.2024	4	Model on Partition system	Sanskriti, Saharsha	Lecture, ppt, video, site visit			
6	4.1.2024	1	Model on Partition system	Sanskriti, Saharsha	Lecture, ppt, video, site visit			
	8.1.2024	4	Introduction to False Ceiling concepts, Gypsum board ceiling, modular ceiling systems in various materials.	Sanskriti, Saharsha	Lecture, ppt, video, site visit	ppt - observation of false ceiling in various buildings	4.1.2024	10
7								

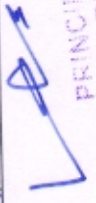


13	19.2.2024	4	Case study ppt - Raised flooring systems	Sanskruiti, Saharsha	Lecture, ppt, video, site visit	15.2.2023	
	22.2.2024	1	Case study ppt - Raised flooring systems	Sanskruiti, Saharsha	Lecture, ppt, video, site visit		
14	26.2.2024	4	Sheet Drafting - Raised flooring systems	Sanskruiti, Saharsha	Lecture, ppt, video, site visit	26.2.2024	10
	29.2.2024	1	Sheet Drafting - Raised flooring systems	Sanskruiti, Saharsha	sketches and details	26.2.2024	
15	4.3.2024	4	Sheet Drafting - Raised flooring systems	Sanskruiti, Saharsha	sketches and details	29.2.2024	10
	7.3.2024	1	Report - Raised flooring systems	Sanskruiti, Saharsha		4.3.2024	
16	11.3.2024	4	Model making - Raised flooring systems	Sanskruiti, Saharsha		7.3.2024	10
	14.3.2024	1	Model making - Raised flooring systems	Sanskruiti, Saharsha			
17	18.3.2024	4	Remidial Lectures				
	21.3.2024	1	Remidial Lectures				
18	25.3.2024	4	Pre final Portfolio				
	28.3.2024	1	Final Portfolio				
19	1.4.2024	4	Final Portfolio				



*Saharsha*

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## Bharati Vidyapeeth College of Architecture, Navi Mumbai

### B. Voc Interior Design

SESSION		2023-24		SEMESTER		IV
Code : 204	Subject: Interior Services-4	Marking system		Theory Paper	Total Marks	Credits
<b>Faculty :</b> Ruchira, Tejesh, Kajal <b>Course Objective:</b> In this semester the learner will be introduced to the principles of lighting, heating, ventilation and conditioning of air as applicable interior spaces. <b>Contents</b> • Illumination standards and artificial lighting design and lighting power density.						
		Sessional	External Viva-voice	50		3
		Periods of 120 mins each	Lectures per week	2	Studios per week	21
					No. Of weeks	32
<b>Course Outcomes</b> Books, Journals, etc. to refer 1. John.F. Pile, Interior Design, 2nd edition, illustrated, H.N.Abrams, 1995. 2. Wanda Jankowski, Lighting : In Architecture and Interior Design, pbc intl, 1995. 3. Moore Fuller, Concepts and practice of Architectural Day lighting, Van Nostrand Reinhold co., New York, 1985.						

#### Teaching Program

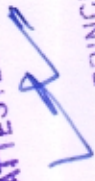
Week	Date	Hours	Topics and Sub- Topics to be taught	Taught By	Methodology of Teaching	Topics for Assignment/ Test	Date of submission	Marks for Assignments /Test	Status of completion of topic
1	28-11-2023	2	Introduction of Subjects, Review of last semester syllabus	Tejesh	Review of last semester syllabus				
2	30-11-2023	1	Study of lighting fixtures used in interior spaces.	Tejesh	Lecture & Power point presentation				
3	05-12-2023	2	Study of lighting fittings used in interior spaces.	Tejesh	Lecture &Powerpoint Presentation				
4	07-12-2023	1	Study of lighting fittings used in interior spaces.	Tejesh	Interactive Session				
5	12-11-2023	2	Physics of Light	Tejesh	Lecture & Power point presentation				
6	14-12-2023	1	Timers & Sensors	Tejesh	Lecture & Power point presentation	Study of lighting fixtures and fittings used in interior spaces e.g. Malls, Museums, Hospitals, Schools etc. (Group Work- PPT)	18-01-2024	10	
7	19-12-2023	2	Illumination Standards	Ruchira	Lecture & Power point presentation				



25	20-02-2024	2	Lighting power density	Tejesh	Lecture & Power point presentation	Numerical on LPD Calculation	22-02-2024	10	
26	22-02-2024	1	Automation in lighting industry	Kajal	Lecture & Power point presentation				
27	27-02-2024	2	Remedial Lecture	Ruchira, Kajal, Tejesh		Internal Test	27-02-2024	10	
28	29-02-2024	1	Remedial Lecture	Ruchira, Tejesh					
Faculty : Ruchira, Tejesh, Kajal							Principal -		

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**Bharati Vidyapeeth College of Architecture**

Lesson Plan				Faculty: Ar. Sanakruti Rajhans		First Year B.Voc.			
Subject: 103 Interior Services		Rajhans & Ar. Rachita D.		SESSION	2023-24	SEMESTER	1		
Syllabus and Objective		Marking system							
Introduction to the principles of water supply, sanitation and drainage system and various types of sanitary fittings and fixtures to enable learner design appropriate service layout. Contents Cold and hot water distribution systems, types of water supply pipes and joints, fixtures and fittings. Soil and waste water disposal system, types of sanitary pipes and joints. Plumbing works for Kitchens, toilets, baths, washing machines, dishwasher, refrigerator, loft tanks etc. Detail for bath Tub, Rain Shower, Shower system, Jacuzzi. Distribution and disposal layout		Sessional	External Viva-voce	Theory Paper	Total Marks	Credits			
		50	50	50	100	3			
		Periods of 120 mins each	Lectures per week	Studios per week	No. Of weeks	Total hours			
		2	0	16	32				
Teaching Program									
Week	Date	Topic to be taught with name of Faculty teaching the topic	Topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/ Test/Remedial lectures (Expected output)	Date of submission of Assignments/ Tests/Remedial lectures	Weightage for Assignments/ Tests/Remedial Lectures
1	17/07/2023 18/07/2023	Ar.Sanakruti Rajhans	Introduction to the Inter	Importance of the subject and syllabus. Introduction to Books used in Building Services and Interior Services, Public Toilet Introduction Observation, Measurement, Understanding Genits/Ladies.	Lecture, Block Board.	1. Rangwala, S.C. Engineering Materials, Charter publishing house, Anand 1963. 2. Rangwala, S.C. Building construction, Charter publishing house, Anand 1963 3. Rangwala S.C., Water supply and sanitary Engineering, publishing house, Roorkee. 4. Pratap R.M (1988) Interior Design Principles and practice, Standard publishers distribution, Delhi. S. F. Hall, Plumbing technology, British library Cataloguing in Publication Data 6. Shubhangi Bhide, Building services & equipments, Rudra offset 7. H. L. Orlt, Water Supply and Sanitary Engineering, Charotar Publishing House B. C. Panchdhar, Water Supply and sanitary installations, Bureau of Indian Standards, N.Delhi 9. Sandeep Mantri, Practical Bldg. Const. & its mgmt., Mantri proj. & consultancy	Observation of Interior Appliances, Observation of Toilets and Bathrooms, Visit Vendors for Market SURVEYS.	18.07.2023	10 Marks
2	24/07/2023 25/07/2023	Ar.Sanakruti Rajhans	Introduction of water supply layout and Drainage systems.	Generic Discussion on water supply and Drainage System. Studio on how to measure, Documentation of College Girls and Boys toilets, observation on public toilets and it Interior Designs.	Lecture, Block Board.	Shubhangi Bhide, Building services & equipments, Rudra offset	1. Documentation work of College Girls and Boys toilet - A3 SHEET SUBMISSION, Market Survey for Appliances.	31.07.2023	10 Marks
3	31/07/2023 01/08/2023	Ar.Sanakruti Rajhans	Introduction to sanitary appliances	Introduction to Sanitary Fixtures and Appliances, Types of Appliances, Uses of Appliances, Design and Construction of Sanitary Appliances, Materials of Sanitary Appliances, What are different appliances Types of Appliances, Section of oil, Material, Plan, Elevation, Market survey.	Lecture, Block Board and Power Point Presentation, Notes.	Shubhangi Bhide, Building services & equipments, Rudra offset	REPORT: 1: SANITARY APPLIANCES	28.08.2023	10 Marks
4	07/08/2023 08/08/2023	Ar. Sanakruti Rajhans, Ar. Rachita D.	Report Writing on above topic	Studio - Report writing on San	Discussion, Dought clearing session.	Shubhangi Bhide, Building services & equipments, Rudra offset			
5	14/08/2023 15/08/2023	Ruchira D.	Traps	What is trap? Types of Traps and its uses, Importance and Necessity of Traps, Qualities of Traps, Reasons for loss of Water	Powerpoint Presentation	Shubhangi Bhide, Building services & equipments, Rudra offset	REPORT : 2 : IMPORTANCE OF TRAPS, AND ITS USES.	4.09.2023	10 Marks
6	21/08/2023 22/08/2023	Ruchira D.	Sanitary Appliances	What is trap? Types of Traps and its uses, Importance and Necessity of Traps, Qualities of Traps, Reasons for loss of Water seals, Commonly used types of traps.	Powerpoint Presentation	Shubhangi Bhide, Building services & equipments, Rudra offset			
7	28/08/2023 29/08/2023	Ar.Sanakruti Rajhans	Toilet and Bathrooms Sizes and Appliances and fixtures.	Standard sizes of toilets and Bathrooms and its Dimensions, Understanding of	Powerpoint Presentation, lecture, Discussion, Notes.	Shubhangi Bhide, Building services & equipments, Rudra offset	SHEET : 1: TOILET, BATHROOM	11.09.2023	10 Marks

8	04/09/2023 05/09/2023	Ar.Sanskriti Rajhans	Water Supply, Cold and hot water distribution systems, types of water supply pipes and joints, fixtures and fittings.	Water Supply, Importance of Water Supply, Sources of water, Qualitative and Quantitative aspects, Distribution systems, consumption of water supply, Water supply in building, House connection direct and indirect, Overhead storage tanks, Distribution of water in buildings, Hot water and cold water supply.	Powerpoint Presentation, lecture, Discussion, Notes.	1. Rangwala, S.C Engineering Materials, Charner publishing house, Anand 1963. 2. Rangwala, S.C, Building construction, Charner publishing house, Anand 1963 3. Rangwala .S.C., Water supply and sanitary Engineering, publishing house, Roorkee.	PORT : 3 : WATER SUPPLY	18.9.2023	10 Marks
	11/09/2023 12/09/2023	Ar.Sanskriti Rajhans	Water Supply, Cold and hot water distribution systems, types of water supply pipes and joints, fixtures and fittings.	Water Supply, Importance of Water Supply, Sources of water, Qualitative and Quantitative aspects, Distribution systems, consumption of water supply, Water supply in building, House connection direct and indirect, Overhead storage tanks, Distribution of water in buildings, Hot water and cold water supply.	Powerpoint Presentation, lecture, Discussion, Notes.				
	18/09/2023 19/09/2023	Ar.Sanskriti Rajhans,	Cold and hot water distribution systems, types of water supply pipes and joints, fixtures and fittings.	Water Supply, Importance of Water Supply, Sources of water, Qualitative and Quantitative aspects, Distribution systems, consumption of water supply, Water supply in building, House connection	Powerpoint Presentation, lecture, Discussion, Notes.				
9	18/09/2023 19/09/2023	Ar.Ruchira D.	Sanitary Appliances	Detail for bath tub, Rain shower, shower system and Jacuzzis, Appliances, Section of all, Material, Plan, Elevation, Market survey.	Powerpoint Presentation, lecture, Discussion, Notes.	C. Panchdhari, Water Supply and sanitary installations, Bureau of Indian Standards, N.Delhi 9. Sandeep Mantri, Practical Bldg. Const. & its mgmt., Mantri proj. & consultancy Pvt.ltd	REPORT : 4 : SANITARY APPLIANCES	2.10.2023	10 Marks
10		Ruchira D.	Plumbing Work	Plumbing work for kitchen Toilets Baths, Washing Machines, Dishwasher, Refrigerator, Loft Tank etc.	Powerpoint Presentation, lecture, Discussion, Notes.				
11	25/09/2023 26/09/2023	Ruchira D.	Distribution and Disposal System	Drain Pipes, commonly used Drain pipes, Norms of pipes jointing, Inspection Chambers/Sill and its Importance, and Waste Water Disposal System	Powerpoint Presentation, lecture, Discussion, Notes.				
12	02/10/2023 03/10/2023	Ruchira D.	Distribution and Disposal Layout	House Drainage system,Principak of House drainage systems Plan, Section	Powerpoint Presentation, lecture, Discussion, Notes.				
13	09/10/2023 10/10/2023	Ar.Sanskriti Rajhans Ruchira D.	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS
14	16/10/2023 17/10/2023	Ar.Sanskriti Rajhans Ruchira D.	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS
15	23/10/2023 24/10/2023	Ar.Sanskriti Rajhans Ruchira D.	MARKING	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS	FINAL PORTFOLIO - REPORT 1 - 5, TOILET DETAIL SHEETS, MARKET SURVEY.		20 Marks
16	30/10/2023 31/10/2023	Ar.Sanskriti Rajhans Ruchira D.	MARKING	REMIDAL CLASS	REMIDAL CLASS	REMIDAL CLASS			
Subject Coordinator - Prof. Sanskriti Rajhans & Prof. Ruchira Dahole					Prof. Sanish Dhale Principal.				



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College of Architecture  
Belpada Complex, Opp. Kharghar  
Rly. Station, C.B.D. Navi Mumbai

L E S S O N P L A N		Year M. Arch.		
Subject: St-04: <b>RESEARCH METHODS IN CONSTRUCTION</b>		SESSION	SEMESTER	
Faculty: Ar. Vinita Deshmukh, Ar. Himika Lakhapuria		2023-24	2	
<p><b>Syllabus and Objective</b></p> <p><b>Methods of Research:</b> Interview Techniques: Questionnaires / Face to face Interviews / Internet survey. Designing a Questionnaire / Interview schedule. Visual Techniques: Observations (participant / non-participant / direct), activity mapping, accession/erosion trace observations, cognitive maps, etc. Content Analysis: Secondary data analysis: Understanding the relative advantages, disadvantages and application of various methods mentioned above and choosing a method appropriate for a research to achieve its objectives.</p> <p><b>Data Documentation and Analysis:</b> Understanding the nature of data collected and methods of analysis suitable for that data (graphical / numerical / descriptive). Converting data into numerical form for data analysis. Introduction to the Statistics Introduction to the simple statistical methods of analyzing numerical data – frequencies / percentages, mean / median / mode, correlation, chi square test – inferring from the data and interpreting the meaning of those inferences. Use of MS Excel for statistical data analysis.</p> <p><b>Presentation &amp; Reporting:</b> Presentation of the Data: Techniques of presenting the numerical data – graphical (pie charts, bar charts, line graphs etc.), tabulations, verbal qualitative data, architectural drawings / maps. Reporting the Research: Different sections of a research report, technical writing and language (tense, voice, etc.), formatting of a report.</p>		<p><b>Marking system</b></p>		
<p><b>Course Outcomes</b></p> <p>CO 1: Formulate research problem</p> <p>CO 2: Analyze literature review and find research gaps to finalize research objectives.</p> <p>CO 3: Understand the various methods of research and steps involved therein.</p> <p>CO 4: Decipher the collected data as Qualitative research and Quantitative research. .</p> <p>CO 5: To demonstrate knowledge of research processes (reading, evaluating, and developing)</p> <p>CO 6: To be able to define and develop a possible research interest area using specific research designs in an ethical way</p>		Sessional	Total Marks	Credits
		50	100	4
		Teaching Schedule		
<p>Periods of 50 minutes each</p>		Lectures per week	Studios per week	Total
		3		

Teaching Program

Date	Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/Tests/Remedial lectures (Expected output)	Date of submission of Assignments/Tests/Remedial lectures	Output Achieved from Assignments/Tests/Remedial Lectures
28-12-23		Pre Studies					
03-01-24		Workshop Week Pinnacle					
04-01-24							
10-01-24							
11-01-24							
16-01-24	Methods of Research		<ul style="list-style-type: none"> <li>Interview Techniques: Questionnaires / Face to face Interviews / Internet survey. Designing a Questionnaire / Interview schedule.</li> </ul>	Expository lecture			
18-01-24	Methods of Research	<ul style="list-style-type: none"> <li>Visual Techniques: Observations (participant / non-participant / direct), activity mapping, accession/erosion trace observations, cognitive maps, etc.</li> </ul>	Expository lecture				
23-01-24	Methods of Research	<ul style="list-style-type: none"> <li>Content Analysis: Secondary data analysis: Understanding the relative advantages, disadvantages and application of various methods</li> </ul>	Discussion Method of Teaching				
25-01-24		Studio on Abstract writing	One on One Discussion				
30-01-24		Studio on Research Problem statement	One on One Discussion				


## Bharati Vidyapeeth College of Arch. Lecture

Studio for formulation of Research Aim		One on One Discussion	Research Methods by NS Kothari	Assignment 1 (Abstract writing, Problem statement, Aim)	06-02-24	CO1
01-02-24						
06-02-24	Data Documentation and Analysis	<ul style="list-style-type: none"> <li>Data collection methods</li> <li>Methods of analysis suitable for that data (graphical / numerical / descriptive).</li> <li>Converting data into numerical form for data analysis.</li> <li>Introduction to the Statistics Introduction to the simple statistical methods of analyzing numerical data – frequencies / percentages, mean / median / mode,</li> </ul>	Expository lecture			
08-02-24	Data Documentation and Analysis	<ul style="list-style-type: none"> <li>Inferring from the data and interpreting the meaning of those inferences.</li> <li>Use of MS Excel for statistical data analysis.</li> </ul>	Expository lecture			
13-02-24	Data Documentation and Analysis		Expository lecture & Case Study Examples			
15-02-24		Studio-1 for writing Research Objective	Expository lecture			
20-02-24		Studio-2 for writing Research Objective	Expository lecture			
22-02-24		Studio-1 for identifying methods of Data collection with respect to individual research problem	Expository lecture			
27-02-24		Studio-2 for identifying methods of Data collection with respect to individual research problem	Expository lecture	Assignment 2 (Research objective and different methods of Data collection)	29-02-24	CO2, CO3
29-02-24	Presentation & Reporting	<ul style="list-style-type: none"> <li>Techniques of presenting the numerical data – graphical (pie charts, bar charts, line graphs etc.), tabulations, verbal qualitative data, architectural drawings / maps</li> </ul>	Expository lecture with examples			

## Bharati Vidyapeeth College of Arch. Lecture

05-03-24	Presentation & Reporting	o Reporting the Research : Different sections of a research report, technical writing and language (tense, voice, etc.), formatting of a report	Expository lecture with case study examples			
07-03-24	Studio-1 for implementation of suitable data analysis method to research problem		One on One Discussion			
12-03-24	Studio-2 for implementation of suitable data analysis method to research problem		One on One Discussion	Research Methods by NS Kothari, Various publication sources	Assignment 3 (Implementation of suitable data analysis method to research problem)	CO4 14-03-24
14-03-24	One on one studio discussion for research method in construction panel					
19-03-24	<b>Pre Final Presentation (Flipped Classroom) (CO5, CO6) 05 Marks</b>					
21-03-24	Developmental discussion- 1 (Final Research Panel presentation)					
26-03-24	Developmental discussion-2 (Final Research Panel presentation)					
28-03-24	<b>Final Panel Submission (CO5, CO6) 15 Marks</b>					
Subject Coordinator:		Ar. Vinita Deshmukh, Ar. Himika Lakhanpuria		Principal Ar. Satish Dhale		



  
**Principal**  
**Bharati Vidyapeeth**  
**College of Architecture**  
 Belpada Complex, Opp. Kharghar  
 Rly. Station, C.B.D. Navi Mumbai

Subject: EI - 09 Elective - 1

Faculty: Ar. Vinita Deshmukh,  
Ar. Himika Lakhanpuria

**(RESEARCH PAPER WRITING)**

**S E S S I O N**

**2024-25**

**S E M E S T E R**

**3**

**Syllabus and Objective**

**Methods of Research:** Interview Techniques: Questionnaires /Face to face Interviews / Internet survey. Designing a Questionnaire / Interview schedule. Visual Techniques: Observations (participant / non-participant / direct), activity mapping, accession/erosion trace observations, cognitive maps, etc. Content Analysis: Secondary data analysis: Understanding the relative advantages, disadvantages and application of various methods mentioned above and choosing a method appropriate for a research to achieve its objectives.

**Data Documentation and Analysis:** Understanding the nature of data collected and methods of analysis suitable for that data (graphical / numerical / descriptive). Converting data into numerical form for data analysis. Introduction to the Statistics introduction to the simple statistical methods of analyzing numerical data – frequencies / percentages, mean / median / mode, correlation, chi square test – inferring from the data and interpreting the meaning of those inferences. Use of MS Excel for statistical data analysis.

**Presentation & Reporting:** Presentation of the Data: Techniques of presenting the numerical data – graphical (pie charts, bar charts, line graphs etc.), tabulations, verbal qualitative data, architectural drawings / maps. Reporting the Research: Different sections of a research report, technical writing and language (tense, voice, etc.), formatting of a report.

**Marking system**

**Course Outcomes**

**CO 1:** With the developed research topic specific research designs in an ethical way

**CO 1:** Formulate research problem

**CO 2:** Analyze literature review and find research gaps to finalize research objectives.

Sessional	External Viva-voce	Theory Paper	Total Marks	Credits
50	50	-	100	4
Teaching Schedule				
Periods of 50 minutes each	Lectures per week	Studios per week	No. of weeks	Total

## Bharati Vidyapeeth College of Architecture

<p><b>CO 3:</b> Understand the various methods of research and steps involved therein.</p> <p><b>CO 4:</b> Decipher the collected data as Qualitative research and Quantitative research. .</p> <p><b>CO 5:</b> To demonstrate knowledge of research processes (reading, evaluating, and developing)</p> <p><b>CO 7:</b> To be able to culminate &amp; present research data in to standard research paper format .</p>		3					
Teaching Program							
Date	Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/ Test/ Remedial lectures (Expected output)	Date of submission of Assignments/ Tests/ Remedial Lectures	Output Achieved from Assignments/ Tests/ Remedial Lectures
28-12-23							
Pre Studies							
03-01-24							
04-01-24							
10-01-24							
11-01-24							
Workshop Week Pinnacle							
16-01-24	Methods of Research	<ul style="list-style-type: none"> <li>o Interview Techniques: Questionnaires /Face to face Interviews / Internet survey. Designing a Questionnaire / Interview schedule.</li> </ul>	Expository lecture				
18-01-24	Methods of Research	<ul style="list-style-type: none"> <li>o Visual Techniques: Observations (participant / non-participant / direct), activity mapping, accession/erosion trace observations, cognitive maps, etc.</li> </ul>	Expository lecture				

## B. Rati Vidyapeeth College of Arch. Lecture

23-01-24	Methods of Research	<ul style="list-style-type: none"> <li>Content Analysis: Secondary data analysis: Understanding the relative advantages, disadvantages and application of various methods</li> </ul>	Discussion Method of Teaching				
25-01-24		Studio on Abstract writing	One on One Discussion				
30-01-24		Studio on Research Problem statement	One on One Discussion				
01-02-24		Studio for formulation of Research Aim	One on One Discussion	Research Methods by NS Kothari	Assignment 1 (Abstract writing, Problem statement, Aim)	06-02-24	CO1
06-02-24	Data Documentation and Analysis	<ul style="list-style-type: none"> <li>Data collection methods</li> <li>Methods of analysis suitable for that data (graphical / numerical / descriptive).</li> </ul>	Expository lecture				
08-02-24	Data Documentation and Analysis	<ul style="list-style-type: none"> <li>Converting data into numerical form for data analysis.</li> <li>Introduction to the Statistics Introduction to the simple statistical methods of analyzing numerical data – frequencies / percentages, mean / median / mode,</li> </ul>	Expository lecture				
13-02-24	Data Documentation and Analysis	<ul style="list-style-type: none"> <li>Inferring from the data and interpreting the meaning of those inferences.</li> <li>Use of MS Excel for statistical data analysis.</li> </ul>	Expository lecture & Case Study Examples				
15-02-24		Studio-1 for writing Research Objective	Expository lecture				
20-02-24		Studio-2 for writing Research Objective	Expository lecture				
22-02-24		Studio-1 for identifying methods of Data collection with respect to individual research problem	Expository lecture				

# Bharati Vidyapeeth College of Architecture

27-02-24	Studio-2 for identifying methods of Data collection with respect to individual research problem	Expository lecture	Research Methods by NS Kothari, Various publication sources	Assignment 2 (Research objective and different methods of Data collection)	29-02-24	CO2, CO3
29-02-24	<ul style="list-style-type: none"> <li>Techniques of presenting the numerical data – graphical (pie charts, bar charts, line graphs etc.), tabulations, verbal qualitative data, architectural drawings / maps</li> </ul>	Expository lecture with examples				
05-03-24	<ul style="list-style-type: none"> <li>Reporting the Research : Different sections of a research report, technical writing and language (tense, voice, etc.), formatting of a report</li> </ul>	Expository lecture with case study examples				
07-03-24	Studio-1 for implementation of suitable data analysis method to research problem	One on One Discussion		Assignment 3 (Implementation of suitable data analysis method to research problem)	14-03-24	CO4
12-03-24	Studio-2 for implementation of suitable data analysis method to research problem	One on One Discussion	Research Methods by NS Kothari, Various publication sources			
14-03-24	One on one studio discussion for research method in construction panel					
19-03-24	<b>Pre Final Presentation (Flipped Classroom) (CO5, CO6) 05 Marks</b>					
21-03-24	Developmental discussion- 1 (Final Research Panel presentation)					
26-03-24	Developmental discussion-2 (Final Research Panel presentation)					
28-03-24	<b>Final Panel Submission (CO5, CO6) 15 Marks</b>					
Subject Coordinator:		Principal				
Ar. Vinita Deshmukh, Ar. Himika Lakhanpuria		Ar. Satish Dhale				

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L E S S O N P L A N		1 <sup>st</sup> Year M. Arch. (Sem. 1)			
Subject: Law - 1 : Legal Frame work for Construction		2023-24	SEMESTER		
Faculty: Ar. Vinita D., Ar. Neha P.		1			
<p><b>Syllabus and Objective</b></p> <ul style="list-style-type: none"> <li>Architects Act 1972 in India – Scope of work, Professional conduct, Scale of fees, etc. Architect's Professional liabilities and responsibilities. Architectural Competitions. Registration and continuation of registration of COA.</li> <li>Regulations, Conditions and requirements of qualification, equivalence etc. for International practice in countries other than India like: USA, UK, Europe, Gulf countries, Asian countries etc. An overview of various Acts relevant to the Architectural profession: Taxation laws like IT, Service Tax, etc. An overview of various Acts relevant to the Architectural profession: like Indian Contract Act, Environment related laws, etc</li> </ul>		<b>Marking system</b>			
<p><b>Course Objective &amp; Course Outcome(CO)</b></p> <p>CO 1: Architects Act 1972 in India -The students develops an understanding of Architects Act 1972 in India, with respect to Scope of work, Professional conduct, Scale of fees, etc.The student will be able to execute the Architect's Professional liabilities and responsibilities in practice and Evaluating role of Architect his role in project work and the Relationship of Architect with client, contractor and Govt. Bodies</p> <p>CO 2: Understanding the objective of RERA Act2016, the functions and procedure for project registration , Procedure for filling a complaint as per RERA Act 2016 .</p> <p>CO 3: Introduce the contract Act, types of contracts and its documents, vocabulary related to contracts such as earnest money, liquidate damage, termination of contract, payment certificates etc</p> <p>CO 4: Regulations, Conditions and requirements of qualification, equivalence etc. for International practice in countries other than India like: USA, UK, Europe, Gulf countries, Asian countries etc.</p> <p>CO 5: Architectural Competitions, Types of Competitions etc.</p> <p>CO 6: Understand the Registration process and continuation of registration of COA</p> <p>CO 7: An overview of various Acts relevant to the Architectural profession: Taxation laws like IT, Service Tax, etc. .</p> <p>CO 8: An overview of various Acts relevant to the Architectural profession: Consumer protection Act, MRTTP , Environment related laws, etc</p>	Continuous sessional Assessment (Internal)	External Viva-voce	Theory Paper	Total Marks	Credits
	50	-	50	100	4
		Teaching Schedule			
		Lectures per week	Studios per week	No. of weeks	
		4		Total	
		Periods of 50 minutes each			
		Teaching Program			

Week	Date	Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/Test/Remedial lectures (Expected output)	Date of submission of Assignments /Tests /Remedial lectures	Output Achieved from Assignments/Tests/Remedial Lectures
1.	21Aug-25Aug.	Understanding RERA , Consumer protection Act, MRTP , Indian Contract Act, Environment related laws, etc	An overview of various Acts relevant to the Architectural profession: RERA , Consumer protection Act, MRTP , Indian Contract Act, Environment related laws, etc	Lecture and discussion	Valuation practice by Namavati book	<b>Assignment No.1 (CO-8 (10 MARKS)</b> <b>Part1:</b> CO8: Case study of any one MAHARERA Registered Project. <b>Part2:</b> CO8 : Understanding the RERA Act.	28/08 /2023	The student will Understand Architect's Professional liabilities and responsibilities in practice
2.	28Aug-1 <sup>st</sup> Sep.	Architect's Professional liabilities and responsibilities & Architects Act 1972 in India	The student will Understand Architect's Professional liabilities and responsibilities in practice and Evaluating role of Architect with duties and Liabilities, his role in project work and the Relationship of Architect with client, contractor and Govt. Bodies. Architects Act 1972 in India - The students develops an understanding of Architects Act 1972 in India, with respect to Scope of work, Professional conduct, Scale of fees, etc.	Lecture and discussion	Architects Act 1972 in India	<b>Assignment No.2 (10 MARKS)CO1,CO2</b> <b>Part1:</b> CO1:Understanding the Legal liabilities and responsibilities Project. <b>Part2:</b> CO2:Architects Act 1972 in India.		

## Barati Vidyapeeth College of Architecture

3.	4 <sup>th</sup> Sep- 8 <sup>th</sup> Sep.	International Contracts	Understanding the international types of contracts and its documents, vocabulary related to contracts such as earnest money, liquidate damage, termination of contract, payment certificates etc	Lecture and discussion	International Contracts	11/09/2023	The student will understand international contract
4.	11 <sup>th</sup> Sep- 15 <sup>th</sup> Sep.	International Contracts	Regulations, Conditions and requirements of qualification, equivalence etc. for International practice in countries other than India like: USA, UK, Europe, Gulf countries, Asian countries etc	Lecture and discussion	International Contracts	<p><b>Assignment No.3 (10 MARKS) CO3,CO4</b></p> <p><b>Part1:</b>CO3: Case study of any one International contracts Project.</p> <p><b>Part2:</b>CO4 liabilities Regulations, Conditions and requirements of qualification, equivalence etc. for International practice</p>	
5.	18 <sup>th</sup> Sep- 22 <sup>th</sup> Sep.						
6.	25 Sep - 29 Sep.						
7.	2 <sup>nd</sup> Oct- 6 <sup>th</sup> Oct.	Architectural Competitions	Architectural Competitions	Lecture and discussion		<p><b>Assignment No.4 (10 MARKS) CO5,CO6</b></p> <p><b>Part1:</b>CO5:Report writing on Different Architectural Competitions, Types of Competitions etc</p> <p><b>Part2:</b>CO6: Understand the Registration process and continuation of registration of COA</p>	
8.	9 <sup>th</sup> Oct- 13 <sup>th</sup> Oct.	COA	Registration and continuation of registration of COA.	Lecture and discussion	COA web site		
9.	16 <sup>th</sup> Oct- 20 <sup>th</sup> Oct	Remedial Lectures		Lecture and discussion			



**Instructions:**

1. Teaching methodology should vary for a subjects during the semester.
2. Effectiveness of lectures conducted are to be assessed based on Assignments/Tests.
3. Study leave and preparation time before exams should reflect in the Lesson plan
4. All faculty teaching a subject should enter the expected success percentage as a conclusion and those Faculty who are repeating a subject of the previous semester have to enter the previous semesters record of the result and current expected success percentage also .
5. In case of distribution of topics in a subject, the Name of the Faculty and Topics to be taught have to be mentioned separately.

# Bharati Vidyapeeth College of Architecture

**L E S S O N P L A N**

**1<sup>st</sup> Year M. Arch. (Sem.1)**

Faculty: AASHISH AAMALE, Ar. Vinita Deshmukh

Subject: EL-1: ELECTIVE-1: BIM, REVIT

**SESSION**

**2023-24**

**SEMESTER**

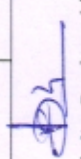

**1**

Syllabus and Objective		Marking system						
Course Objective & Course Outcome(CO)	Continuous sessional Assessment (Internal)	External Viva-voce	Theory Paper	Total Marks	Credits			
	50	50	-	100	3			
Teaching Schedule								
	Periods of 50 minutes each	Lectures per week	Studios per week	No. of weeks	Total			
		3						
Teaching Program								
Week	Date	Topic to be taught with name of Faculty teaching the topic	Sub-Topics	Methodology of Teaching	Books, Journals, etc. to refer	Topics for Assignment/Test /Remedial lectures (Expected output)	Date of submission of Assignment /Tests/Remedial lectures	Output Achieved from Assignments/Tests/Remedial Lectures
1.	21Aug-25Aug.	Architect's Professional liabilities and responsibilities	The student will Understand importance of using software skills in project management	Lecture and discussion		Assignment No.1 (10 MARKS) Part1: EXCEL sheet. Part2: Implementing th scheduling part of project	28/08/2023	The student will Understand Architect's Professional liabilities and responsibilities in practice


2. 28Aug-1st Sep.	EXCEL	Introduction to EXCEL & different software in construction industry.	Lecture and discussion	Lecture and discussion					
3. 4th Sep- 8th Sep.	BIM	Introduction to BIM					Assignment No.2 (10 MARKS) Part1: Part2:	11/09/2023	The student will understand international contract
<b>Teaching Program</b>									
<b>Week</b>	<b>Date</b>	<b>Topic to be taught with name of Faculty teaching the topic</b>	<b>Sub-Topics</b>	<b>Methodology of Teaching</b>	<b>Books, Journals, etc. to refer</b>	<b>Topics for Assignment/Test /Remedial lectures (Expected output)</b>	<b>Date of submission of Assignment s/Tests/Remedial lectures</b>	<b>Output Achieved from Assignments/Tests/Remedial Lectures</b>	
4.	11th Sep- 15th Sep.	BIM	BIM	Lecture and discussion					
5.	18th Sep- 22th Sep.								



## Bharati Vidyapeeth College of Architecture

Diwali Vacation					The student will Understand I	
14	20 <sup>th</sup> Nov. 24 <sup>th</sup> Nov.		Exercise on REVIT	Lecture and discussion	4/12/2023	
15	27 <sup>th</sup> Nov. 1 <sup>st</sup> Dec.	REVIT				
16	4 <sup>th</sup> Dec.- 8 <sup>th</sup> Dec.	Doubt clearing session Remedial session	BIM	Discussion	11/12/2023	
17	11 <sup>th</sup> Dec.- 15 <sup>th</sup> Dec.	Doubt clearing session Pre-final submission	REVIT	Discussion		
18	18 <sup>th</sup> Dec. -22 <sup>nd</sup> Dec	Final internal marking		Presentation		
Subject Coordinator: AASHISH AAMALE, Ar. Vinita Deshmukh 						
Ar. Satish Dhale Principal 						

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**Instructions:**

1. Teaching methodology should vary for a subjects during the semester.
2. Effectiveness of lectures conducted are to be assessed based on Assignments/Tests.
3. Study leave and preparation time before exams should reflect in the Lesson plan
4. All faculty teaching a subject should enter the expected success percentage as a conclusion and those Faculty who are repeating a subject of the previous semester have to enter the previous semesters record of the result and current expected success percentage also .
5. In case of distribution of topics in a subject, the Name of the Faculty and Topics to be taught have to be mentioned separately.



Bharati Vidyapeeth College of Architecture, Navi Mumbai

**Project Title – TURTLE CONSERVATION AND ECOTOURISM CENTRE**

<b><u>Subject</u></b> 401: Architecture Design Studio IV	<b><u>Year   Semester</u></b> 2 <sup>nd</sup> Year   4 <sup>th</sup> Semester
<b><u>Subject Co-Ordinator</u></b> Ar.Suchita P., Ar.Neha J., Ar. Justin T., Ar. Anupama B., Ar. Nikhil B., Ar. Anandi L., Ar. Ankita K., Ar. Bhavika J., Ar. Pooja P., Ar. Yogita K., Ar. Tushar K.	<b><u>Academic year</u></b> 2023-2024

**Introduction:**

The term Ecotourism comprises of visiting a fragile, pristine, natural sites those are relatively untouched, unhampered by human interventions. It essentially sensitizes the traveler towards social, cultural, ecological identity of the region. Ecotourism involves travel to destinations where flora, fauna, and cultural heritage are the primary attractions.

TURTLE CONSERVATION AND ECOTOURISM CENTRE creates as a locus, which gives a platform for the villagers to convene their efforts to conserve the nature as well as to showcase the essence of the vernacular for the tourist.

The brief of this semester design studio is to design a TURTLE CONSERVATION AND ECOTOURISM CENTRE at Velas, Dist. Ratnagiri, Maharashtra, a typical Konkani village situated in the close proximity of Arabian sea. The design brief puts an emphasis on the articulation of said traditions and their interpretation in modern times without losing the essence of the vernacularism.

**Aim:**

To conserve the turtle species and upliftment of local rural community. To develop a **turtle conservation and ecotourism Center** that creates a space which includes **Rural Community, turtle hatching and Socio-Cultural Spaces for Local Community**. It's a space that will aim at connecting built and un-built spaces while inviting new experiences and meanings.

**Objective:**

- To design spaces suitable for life style in rural areas
- To conserve existing ecosystem and social fabric suitable for communities
- To design the buildings suitable to climatic conditions, by using local materials and traditional methods of construction.
- To understand and provide specific infrastructure required for communities.



<b>SITE LOCATION:</b>	Velas, Ratnagiri, Maharashtra
<b>SITE INTRODUCTION:</b>	The Velas beach lines up the coastal village of Velas in Ratnagiri, Maharashtra. It also doubles as a nesting site for Olive Ridley Turtles, who sit in the 'vulnerable' category of IUCN Red List. Velas is a coastal town that is famous for beaches, Harihareshwar temple, Bankot fort, and the most promising Turtle Festival. It's about witnessing the birth of young turtles that hatch from their eggs and slowly crawl into the ocean to start the journey of their life. This festival is also called Olive Ridley Turtle Festival is organized by local villagers. They do so in coordination with an NGO called Sahyadri Nisarg Mitra. Such places requires spaces where efforts made to educate and empower local communities about the importance of turtle conservation.
<b>SITE AREA:</b>	10900 SQM



✓

## Design requirement with area Design requirement with area

AREA REQUIREMENT				
Sr. No.	Space	No. of Users in one unit	No. of Units	Area (SQM)
1	<b>Administration</b>			
	Reception		1	30
	Staff room	4	1	25
	General Manager Cabin	1	1	15
	Conference Room	10	1	25
	Pantry	2	1	15
	Storage		1	15
	ATM	1	1	6
2	<b>Turtle conservation Center</b>			
	Museum/ Exhibition Gallery		2	80
	Information Center/ Library	20	1	60
	AV room	40	1	80
	Research lab	20	1	50
	Training room	20	2	100
	Workshop Area	20	1	100
	Landscaping / Turtle conservation Activity Area	20	1	200
3	<b>Accommodation Area</b>			
	Dormitories	8	4	250
	Cottages	3	8	25-30
	Restaurant/ cafe	50	1	300
4	<b>Open Areas</b>			
	Parking - 2 Wheeler	20	-	APS
	Parking - 4 Wheeler	15	-	APS
	Parking - Bus	2	-	APS
	Water Body / Landscape	-	-	-
5	<b>Ancillary Facilities</b>			
	Services			
	Water Supply & Drainage			
	Medical Unit (Emergency-First-Aid)	-	1	60

### Design portfolio requirements

1. Master Plan- (Scale 1:250)
2. Site Section (Scale 1:250)
3. Concept Sheet
4. Form Development-Study/ Block Model
5. Case Studies
6. Detailed Plans (Scale 1:100)
7. Sections (Scale 1:100)
8. Elevation (Scale 1:100)
9. Final Model/ Views/ Sketchy Views/ Isometric Views (1:500/1:250)
10. Interesting features/ Construction Details.



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Jindw  
06/02/24

Bachnikhe  
06/02/2024

Jy Spati  
06-2-2024  
Aish  
06-02-24

6/2/24

Aash  
6/2/24

# BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI

## ARCHITECTURAL DESIGN - SEMESTER 4

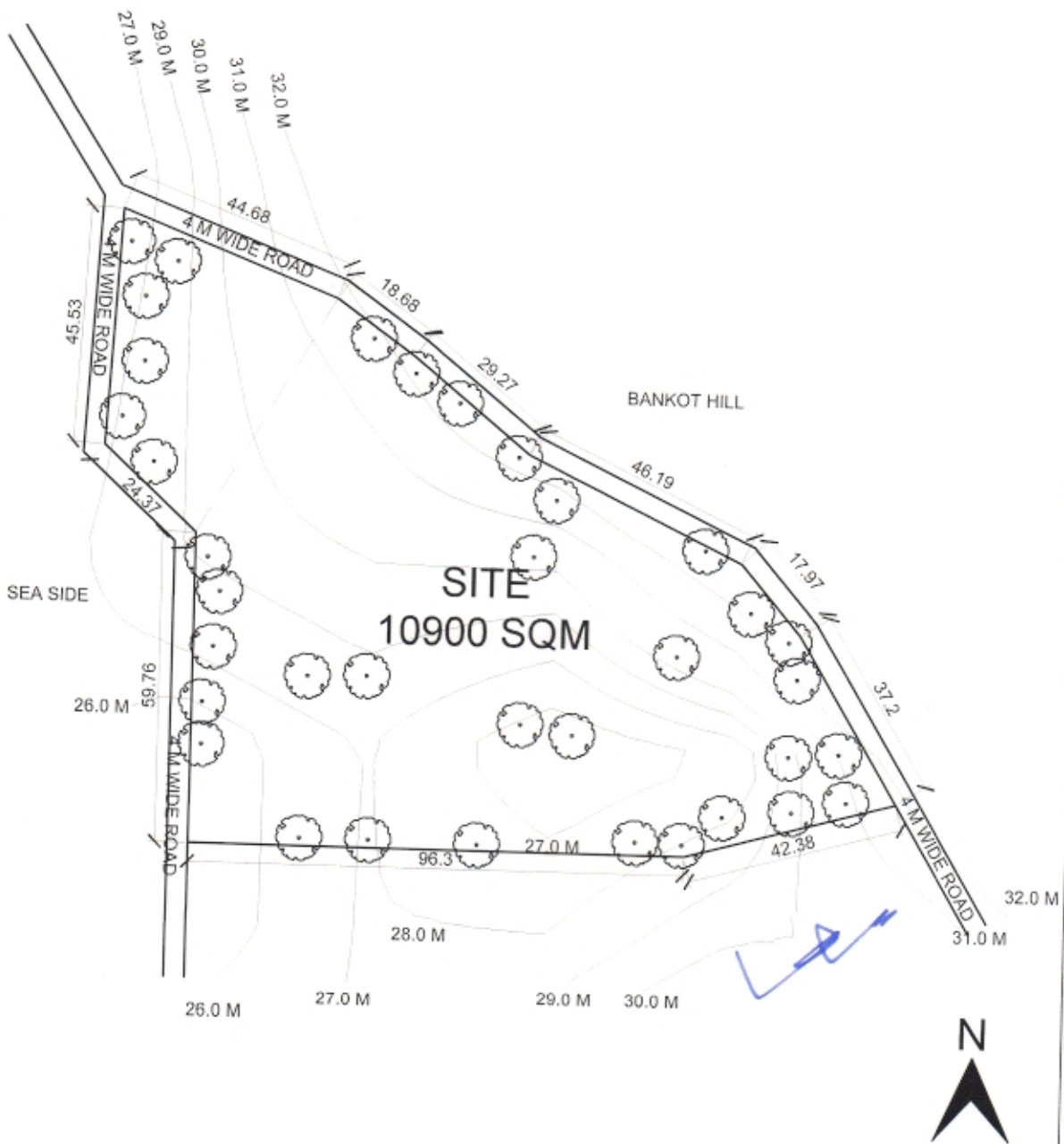
**Site Location:-**

Plot no. 102, Velas Ratnagiri

**Area:-**

~~9000 sqm~~

10900 SQM.



*Jadhav*  
06/02/24

*Patil*  
06/02/24

*Patil*  
06.02.2024

*Patil*  
06.02.24

*Patil*  
6/2/24

*Patil*  
6/2/24

AD VII B  
With Bhavika  
(31.05.23 to  
09.11.23)

6

B. ARCH DESIGN STUDIO 701  
Fourth year – Seventh semester, 2023-24

Bharati Vidyapeeth College of Architecture, Navi Mumbai.

Faculty in charge: Priti Bhandari, Neha Pradhan, Nikhil Badrike

Vandana Chawala, Bhavika Jain, Anandi lale

Ruta Pawar, Amit Das, Pooja patil

### SOCIAL COHESIVE HOUSING

#### Preamble

While it is true, especially in today's world, those cultural changes are natural and inevitable, larger issues remain. The examples of Delhi (where the local cultural traditions provided a mechanism for promoting long-term land use management practices) and where the importance of housing placing value on traditional culture is essential for developing local plans for environmental sustainability. It also demonstrates the use of architecture as a tool to address the connected issues of environmental and cultural sustainability.

Economic concern has made Tibetan refugee community in India drop by 44% according to the data of last 7 years. Problems such as unrecognized residents, lack of education, buying property made Tibetan community to migrate in several parts of India. In India Tibetans people are found in the regions of Ladakh, Kinnaur district in Himachal Pradesh, Spiti valley, Uttarakhand, Sikkim, and Arunachal Pradesh.

#### Aim

To develop Social cohesive housing for Tibetan Community and leading to innovative design strategies for building holistic housing scheme this can elevate the quality of living.

#### Learning Objectives for the design studio

- Introduction to types of Housing
- Understanding different tangible and intangible layers of housing through case studies.
- Understanding housing at different scales like building level, neighborhood level and town level.
  - Sensitizing about social, environmental and financial viability.
- To understand the spatial implications and configuration of cultural and social aspects of community living.
- Learning of physical and psychological need based on their occupation, economic status, gender, age, social status etc. and application of it in spatial context.



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## Programme brief

To design housing complex comprising of Tibetan Community and its neighborhood. Total site area given is 15.3 acres.

### Design Considerations

- 20% Ground coverage
- R.G (Recreational Ground)- 15%
- 25-30% Circulation area
- 12 - 15% Road or Pathways
- F.S.I. would be 0.6
- Amenity 1% of total area
- Adequate 4-wheeler and 2-wheeler parking should be accommodated as per bye-laws.

The following are the distribution of areas which needs to be fulfilled in Housing Complex Design.

### Allocation of areas for various housing types Housing Type & Area Distribution

#### Unit typology - 15m height (0.6 F.S.I)

SR. No	Typology	configuration	Area		units
1	Bungalow	1RK	40 - 45 sq.m	30 %	240
2	Twin houses	1BHK	50 - 60 sq.m	30%	182
3	Row houses	2BHK	60 - 75 sq.m	20%	97
4	Apartments	3BHK	90 - 110 sq.m	19%	65

Zostel- Guest Bed 2 no.- 5 Sharing and 6no. 2 Sharing.

Family Suites 2no. (2 bedded)

### Methodology adopted.

In this entire studio freedom is given to student to alter steps or interchange steps as designing can't be linear process. Two ways process must be adopted for addressing all layers involved.

- Introduction of terms like town planning, urban design and housing and interrelationship.
  - Housing typologies understanding.
  - Analyzing tangible and intangible Parameters through case studies.
  - Designing of neighborhood which can establish context for housing design.
- Working out staff break up according to classes (% of different class employees) and deriving area requirements of each.
- Modules designing for different typologies of houses according to user and site requirement.
  - Clustering of modules according to building typology selected.



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## SEMESTER VII DESIGN STUDIO

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### HOUSING

#### Assignment 1

Documentation of Site visit

Summarized understanding "take home"

Summarized understanding of "Basics of Housing" college lecture

#### Assignment 2 (08.07.2023)

Data mining for PRE-DESIGN MANUAL

(Create 6 -7 Student Groups and distribute following topics. They can add to these prompts)

##### A. CLIMATE

Climate Zone & data; Building orientation; Indigenous vegetation data; Passive design strategies for the climate zone

##### B. CULTURE

Art & motifs, vernacular architecture & features, cultural festivities & celebrations

##### C. SOCIAL

Housing related social needs; social infrastructure; project specific social-psychological needs

##### D. LOCAL BYELAWS

Setbacks; Permissible Building footprint; FSI; permissible building height; Parking requirement; Internal road widths; Parking sizes; any other specific to Site

##### E. BUILDING STANDARDS

NBC design directives for respective climate; Building Envelope Material selection;

##### F. SITE INFRASTRUCTURE

UGT schematic drawing and sizing  
OHT schematic drawing and sizing  
STP schematic drawing and sizing  
Typical road section; Road lighting  
Typical pathway section & pedestrian lighting

##### G. HOUSING TYPOLOGIES

Typologies based on economic criteria – spaces and spatial requirements  
Categories based on hierarchy (eg: in monastery – Head monk; Second level; "students")  
High rise, mid-rise, low rise



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Bharati Vidyapeeth College of Architecture, Navi Mumbai

## Global Fusion Center, Goa

Subject	Year   Semester
501: Architecture Design Studio V	3 <sup>rd</sup> Year   5 <sup>th</sup> Semester

### Introduction

A **Global Fusion center** is a multi-faceted entity which provides a platform for bringing people of diverse cultures and interests.

Welcome to the vibrant world of the Global Fusion Center in Goa, where diverse backgrounds and shared passions converge to create a unique tapestry of cultural experiences. Nestled in the heart of the bustling city, this center serves as a melting pot for individuals from all walks of life, **fostering a spirit of unity and celebration.**

At the Global Fusion Center, we curate a plethora of events that transcend borders and boundaries. From captivating art exhibitions showcasing the work of both local and international artists, to a dynamic shopping arcade offering a fusion of global crafts and products, our center is a haven for those seeking novel experiences and cross-cultural connections.

Multicultural events pulsate with energy, showcasing the rich tapestry of traditions and customs from around the globe. **Through interactive performances, workshops, and presentations, visitors can immerse themselves in the vibrant colors, rhythms, and flavors that define cultures from every corner of the world.**

The center also boasts recreational spaces where visitors can unwind, fostering a sense of community and relaxation. Galleries proudly exhibit diverse artistic expressions, acting as platforms for emerging talents to shine.

One remarkable fact about the Global Fusion Center is its construction within the city of Goa. This location is a testament to our commitment to preserving and enhancing the cultural identity of Goa, while also mitigating certain social issues associated with the area. **By providing a platform for artistic and cultural expressions, the center becomes a catalyst for positive change, promoting inclusivity and understanding.**

Join us on this extraordinary journey of cultural exploration and transformation at the Global Fusion Center in Goa.



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## Aim:

Through its multifaceted offerings, the Global Fusion Center aims to promote cultural integration, dialogue, and appreciation. It encourages fostering a more united society where individuals from different backgrounds can come together to celebrate their shared humanity.

## Objective

1. To preserve, promote, and disseminate the cultural heritage of Goa while being receptive towards other activities of global community.
2. To provide a platform for participation of the community and their exposure to the different cultural aspects through a wide range of engaging programs.
3. To curate multiple spaces of different typologies and fuse it together to host varied activities appealing to the domestic and international audience.

## Intent:

The intent of this project is to harmoniously blend local architecture and innovation by sensitively integrating these cultural elements into the design with modern technologies and techniques, creating a Global Fusion Center that appeals to the diverse audience of Goa. Through a comprehensive study and understanding of the determinants of space making in an urban context, we aim to develop a character that is not only deeply rooted in the social fabric but also relevant to the specific cultural programming of the center.

The project involves identifying key cultural factors that influence space making, such as the notions of privacy and territoriality, occupational associations, and the preservation of traditional values. These factors will be interpreted and translated into the built form through careful consideration of spatial organization, orientation, and the correlation between open, semi-open, and closed spaces. Scales, proportions, climate, topography, local construction systems, and the use of appropriate materials will also be taken into account.

## Studio objectives:

The studio exercise shall focus on designing a multi-functional space in an urban setting including application of development controls rules and local bye-laws. Emphasis may also be laid on site planning as well as services at building and at site level.

1. To develop research skills through literature review and case study analysis
2. To understand functioning of community spaces and factors influencing them in urban areas.
3. To design the buildings suitable to climatic conditions, by using local materials and traditional methods of construction also incorporating new technologies and techniques which suggests comprehension of future designs.
4. To incorporate architectural technologies relevant to earthquake resilience
5. To conserve the natural surroundings and social fabric



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6. To stimulate thought process and conceptual ability through models and sketches.
7. Improving drawing, presentation, and model making skills.
8. To follow the principles of universal design

## LOCATION: GOA

Goa, located on the western coast of India, is a vibrant and popular tourist destination. Goa is a state in India renowned for its scenic beauty and relaxed atmosphere. It is situated on the western coastline, overlooking the Arabian Sea.



Goa is divided into two main districts, North Goa and South Goa. North Goa is more lively and popular among party-goers, with its bustling markets, vibrant nightlife, and famous beaches like Baga, Calangute, and Anjuna. South Goa, on the other hand, offers a more tranquil and relaxed ambiance.

## SITE DETAILS

1. Location = Taleigao, Panaji, Goa
2. Plot area = 16,028.32 m<sup>2</sup>



Site Details



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1. Location = <https://goo.gl/maps/Kh6xgwCHBqVdifjo9>

2. Built up area = 3500 sq.m

## Area Program

Sr. No	Space	People(Per Unit)	Units	Area(Per Unit)	Total Area
1.	Entry + Reception	5	1	100 sq.m	100 sq.m
2.	Ticket Counter + Waiting Area	5+20	1	50 sq.m	50 sq.m
3.	Administration	10	1	50 sq.m	50 sq.m
4.	Meeting Rooms	20	2	25 sq.m	50 sq.m
5.	Seminar Hall	100	2	80 sq.m	160 sq.m
6.	Multipurpose Halls	200	2	250 sq.m	500 sq.m
7.	Workshop Space	25	2	50 sq.m	100 sq.m
8.	Permanent Exhibition Hall + Gift Shop	50	1	250 - 300 sq.m	250 - 300 sq.m
9.	Food Court (10 Outlets + Dining)	-	1	250 - 300 sq.m	250 - 300 sq.m
10.	Shopping Arcade(10 Outlets)	-	10	30 sq.m	300 sq.m
11.	Temporary Kiosk Space(10 Outlets)	-	10	10 sq.m	100 sq.m
12.	Exhibition Halls	50	1	100 sq.m	100 sq.m
13.	Art Gallery	25-50	1	100 sq.m	100 sq.m
14.	Restaurant+Kitchen (Fine Dining)	100	1	200+100 sq.m	300 sq.m
15.	Experiential Hall (VR Room/Holograms/AR/AI)	30	1	100 sq.m	200 sq.m
16.	Central Plaza	-	1	As per Design	As per Design
17.	Open Air Theater	-	1	As per Design	As per Design
18.	Toilets	As per requirement	As per requirement	As per requirement	As per requirement
19.	Parking	As per requirement	As per requirement	As per requirement	As per requirement



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Live Case Studies


1. House of Museum



2. Kala Academy



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3. Fountainhas Latin Quarter



4. Urban Square

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5. Goa State Museum



6. Immaculate Conception Church



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### Design portfolio requirements

1. Site analysis, case studies, and concept development
2. Site Plan showing roof plan and site sections (Scale = 1:500)
3. Site Plan showing ground floor plan (Scale = 1:500)
4. All floor plans with furniture layout and structural details (Scale: 1:200)
5. All elevations (Scale: 1:200)
6. Building sections showing critical details (Scale: 1:200)
7. Views, detailed site model and block model.

### Note:

1. The assessment will be more oriented towards the design process followed by the student rather than the final product.
2. However, an emphasis will be put on preparing a complete set of presentation drawings including Plan, Section and elevation adopting graphical techniques such as perspective, axonometric views etc. and a model thereby improving overall skill set.

All reviews carry marks



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<b>BHARATI VIDYAPEETH COLLEGE OF ARCHITECTURE, NAVI MUMBAI</b>	
ARCHITECTURE DESIGN PROGRAMME	SEM – 9 <sup>TH</sup>
5TH YR. ARCH	2023-24

DURATION: JUNE 2023 – OCTOBER 2023

### TOPIC: MUSEUM & ART GALLERY

Prof. Varsha Annadate, Prof. Vinita Deshmukh, Prof. Tejaswini H.M.

#### Introduction:

A definition by ICOM (International Council of Museums), "A museum is a not-for-profit, permanent institution in the service of society that researches, collects, conserves, interprets and exhibits tangible and intangible heritage. Open to the public, accessible and inclusive, museums foster diversity and sustainability. They operate and communicate ethically, professionally and with the participation of communities, offering varied experiences for education, enjoyment, reflection and knowledge sharing." Museums are storage of diverse heritage, both natural as well as cultural and as institutions they make significant contribution to the social cultural development of society.

In India first museum named Indian Museum in Kolkata was established in 1814 under the supervision of the Asiatic Society. Its establishment began the museum movement in India. In recent years, museums focus shifted to interpretation and communication with visitors. There is a need of museum to bring communities together to gain knowledge more in detail about particular typology of Museum.

#### Aim:

To design a Museum and Art Gallery with all supporting amenities, & providing exposure, experience to user group which will be functional, aesthetically pleasing and fit the needs of the museum collection and should be flexible to accommodate future changes.

#### Objective:

The design objectives of the studio are as:

- Familiarization of the students with the programme formulation, project methodology and design inputs for multiple activity projects thereby establishing a programme from both primary and secondary sources.
- Incorporation of site analysis and context as an effective design determinant.
- Addressing and exploring specific project requirements
- Application of learning from the subjects of Building Services, Advance Building construction Techniques viz: long span structures etc, Bye-Laws, Environmental Studies, in particular as significant aspects of architectural design.



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## The Program:

The museum will cater to serve the society which includes all age groups, culture & status. Three categories of Museums are selected namely **Textile & Fashion, Heritage & culture & Marine life**. Students were asked to design with respect to site/location context. Overall Programme divided into different Categories.

### Public Areas:

1. Entrance hall/waiting room
2. Enquiry/Information /Ticket Counter/Locker
3. Souvenir shop/counter
4. Exhibition hall (Permanent, Semi Permanent, Experiential spaces)
5. Art Gallery
6. Audiovisual Room
7. Seminar Room
8. Food court/Cafe
9. Library
10. Toilets & drinking Water
11. Open Exhibition Area
12. Parking facilities as per norms
13. Landscape areas for gardens and other outdoor activities

### Administrative /Restricted Areas

1. Administrative areas as required
2. Maintenance & conservation Lab & control rooms
3. Photography Room
4. Conference Room
5. Archive storage
6. Toilets

### Other Facilities

1. Security Office/Alarm systems
2. Technical facilities like Plant Room,
3. Electrical substation,
4. Fire safety Arrangements, electric power back up system

**Note:** 1. Student can add any other facility as per their category of Museum.

2. Students are required to work out details for activity and ancillary areas as per the standards and case studies.

3. Students should focus on Creativity, sustainability and must fulfill the basic requirements of museum design

## Site:

Each category has one site. In all there are three sites and measuring approx. 7-8 acres in area.



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## 1. Textile & Fashion Museum

A Textile and Fashion Museum is an innovative and immersive cultural institution dedicated to the exploration and celebration of the world of Fashion and Textiles. As a vibrant hub for clothing enthusiasts, artisans, and historians- the museum offers a dynamic space where the interwoven tapestry of style, craftsmanship, and cultural heritage comes alive.

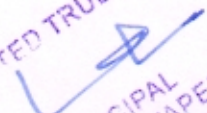
The museum also fosters a dynamic environment for emerging designers and textile artists- acting as a platform to showcase their groundbreaking work and experimental designs. In addition to static exhibits, the museum's calendar thrives with temporary displays, rotating exhibits, and interactive workshops, inviting visitors to engage with fashion in hands-on ways.

Beyond preserving the past, the Fashion and Textile Museum also embraces the present and looks towards the future. It hosts seminars, symposiums, and talks that explore the intersection of fashion, sustainability, and technological advancements- fostering dialogue on responsible practices and the impact of the fashion industry on the planet.

In conclusion, Textile and Fashion Museum paves the way for new perspectives and a deeper appreciation for the artistry of the garments we wear and additionally invites visitors to unravel the boundless stories hidden within every stitch.

Aim is to develop a museum space to exhibit the history, concepts, and production processes of various types of fashion and textiles - both traditional and contemporary, pertaining to the Indian context - on an international platform, while imparting knowledge about fashion and textiles to the common public.



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AREA PROGRAM								
SR NO.	SPACES	CAPACITY		SPACE REQUIREMENT		NET AREA ACCO. TO SEMI OPEN SPACES	COVERED	SEMI - COVERED
		EMPLOYEE	VISITOR	NO.S	NET AREA SQ. M			
<b>A</b>	<b>Entrance</b>							
1	Ticket Counter	3	9	3	30	30	*	*
2	Reception and Lobby	2	30	1	150	150	*	
3	Toilet	2		1	15	15	*	
<b>B</b>	<b>Administration</b>							
1	Manager Cabin	1	2	1	15	15	*	
2	Director's Cabin	1	2	1	25	25	*	
3	Conference Room	12		1	80	80	*	
4	Back Office	6		6	120	120	*	
5	Storage Room	1		1	20	20	*	
6	Pantry	3		1	10	10	*	
7	Toilet	2		1	15	15	*	
<b>C</b>	<b>Exhibition</b>							
1	Temporary Exhibition Galleries	3	30	3	450	450	*	
2	Permanent Exhibition Galleries	4	80	4	800	800	*	
3	Workshops / Studios	3	24	3	300	250	*	*
<b>D</b>	<b>Fashion Arena</b>							
1	Fashion Runway / Stage	20	150	1	400	400	*	
<b>E</b>	<b>Supporting Services</b>							
1	Conservation Lab	5		1	60	60	*	
2	Photography Room	2		1	50	50	*	
3	Control Room	2		1	60	60	*	
<b>F</b>	<b>Recreational Spaces</b>							
1	Shops	2	6	8 to 10	200	150	*	*
2	Amphitheatre	10	200	1	600	300		*
3	Food Court	12	100	4	500	250		*
<b>G</b>	<b>Essential Spaces</b>							
1	Loading and Unloading Area	2		1	200	200	*	
2	Toilet Blocks		18	3 x 6	90	90	*	
3	Storage room	2		1	150	150	*	
4	Library	1	10	1	100	100	*	
5	Security	6		3	30	30	*	
	<b>TOTAL</b>	<b>107</b>	<b>661</b>		<b>4470</b>	<b>3820</b>		



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## Site 1

Area = **32374. Sq.m/ 8 Acres**

Locality Name: Mamallapuram Rd, Mahabalipuram, Tamil Nadu 603104.

Co-ordinates - 12.617577, 80.177296

Soil Type – Red soil/ Alluvial Soil

Wind Flow – Southwestern Monsoon Winds

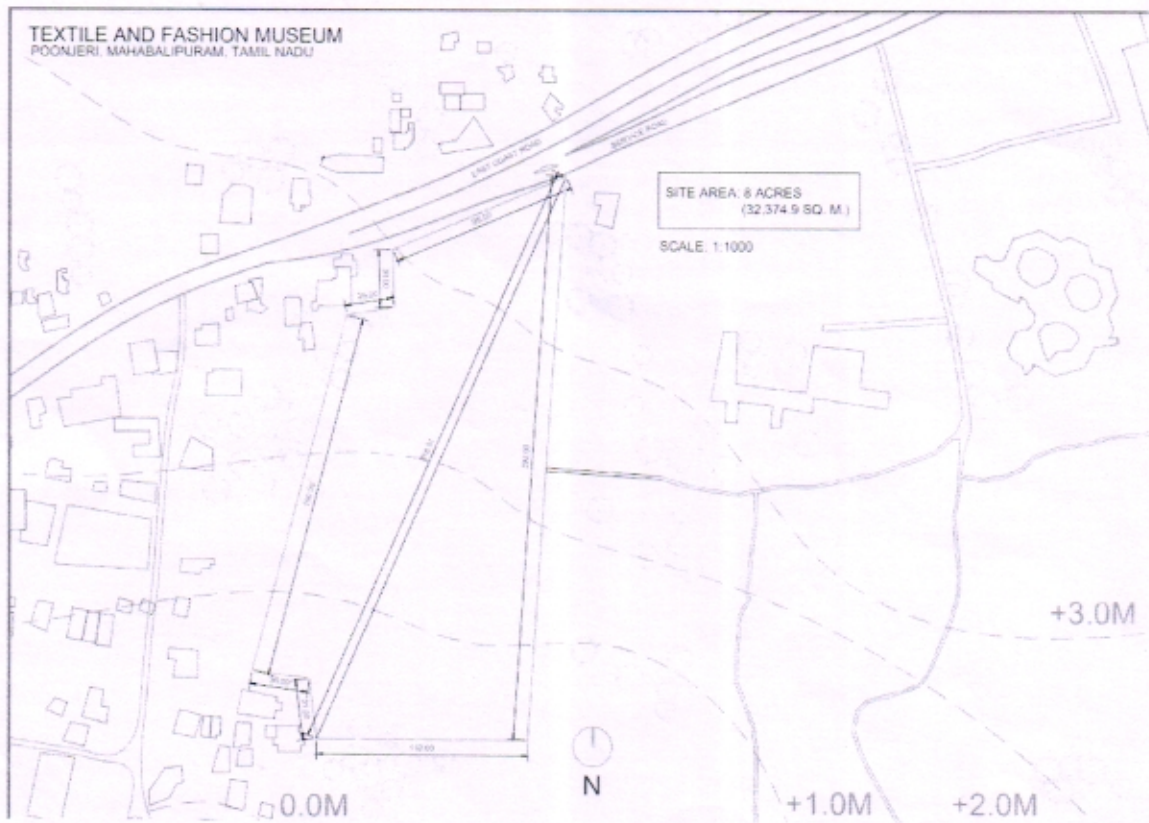
Southeastern Summer Winds

Northeastern Winter Winds

Connecting Main Road Width – 10m

Setbacks – 6m

District: Chengalpattu District



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## 2. Heritage & Cultural Museum

A heritage and cultural museum are a type of museum that focuses on preserving, exhibiting, and interpreting artifacts, artworks, and other cultural and historical items related to a particular region, community, or civilization's heritage. These museums play a crucial role in documenting and showcasing the tangible and intangible aspects of a society's cultural identity and history.

Maharashtra boasts a rich and diverse cultural heritage, encompassing art, music, dance, literature, and traditional practices unique to the region.

The aim is to create a design that harmoniously blends modern elements with traditional architectural styles found in the region, while also preserving and showcasing the rich heritage and culture of Maharashtra.

SR.NO	GROUP NAME	SPACES	TYPE OF AREA	CAPACITY		SPACE REQUIREMENT		TYPE OF SAPE
				STAFF	VISITORS	NOS	NET AREA	
1	ADMINISTRATION	DIRECTOR'S CABIN	RESTRICTED	1	2	1	20	ENCLOSED
		ASST. DIRECTOR	SEMI-PUBLIC	1	3	1	10	ENCLOSED
		ACCOUNTS (HEAD & STAFF)	SEMI-PUBLIC	4	5	1	30	ENCLOSED
		TICKET COUNTER	RESTRICTED	1		3	30	
		SECURITY AREA	PUBLIC	2		1	10	SEMI-ENCLOSED
		RECEPTION AREA & WETTING AREA	PUBLIC	4	100	1	500	SEMI-ENCLOSED
		MAINTENANCE (HEAD & STAFF)	SEMI-PUBLIC	10		1	15	ENCLOSED
		CONFERENCE ROOM	RESTRICTED	10		1	30	ENCLOSED
		PANTRY	RESTRICTED	3		1	10	ENCLOSED
		SERVER ROOM	RESTRICTED	4		1	20	ENCLOSED
		TOILET FOR STAFF	RESTRICTED	40		2	15	ENCLOSED
		TOILET FOR VISITORS	PUBLIC		100	1	30	ENCLOSED
					40	110		730
2	ARTIFACTS STORAGE	STORAGE SPACE	RESTRICTED	2		1	100	ENCLOSED
		FILE RECORD ROOM	RESTRICTED	1		1	10	ENCLOSED
		MAINTENANCE ROOM	RESTRICTED	5		1	40	ENCLOSED
		STAFF ROOM	RESTRICTED	10		1	20	ENCLOSED
		TOILET	RESTRICTED	10		1	15	ENCLOSED
			20			185		
2	SPACES	LOBBY	PUBLIC				100	ENCLOSED
		PERMANENT GALLERY	PUBLIC	2	25	3	600	ENCLOSED
		TEMPORARY GALLERY	PUBLIC	2	25	3	600	ENCLOSED
		DIGITAL GALLERY	PUBLIC	2	20	2	300	ENCLOSED
		INTERACTION ZONE	PUBLIC	2	15	2	200	SEMI-ENCLOSED
		AUDIO VISUAL ZONE	PUBLIC	2	20	2	300	ENCLOSED
		LECTURAL THEATER	PUBLIC	2	25	2	300	ENCLOSED
		MECHANICAL ROOM	RESTRICTED	3		1	25	ENCLOSED
		SERVICE ROOM	RESTRICTED	3		1	25	ENCLOSED
		TOILET	PUBLIC			3	120	ENCLOSED
			17	130		2570		
3	LIBRARY	LIBRARIAN CABIN	PUBLIC					ENCLOSED
		BAGGAGE & REGISTRATION	PUBLIC					ENCLOSED
		COUNTER	PUBLIC					ENCLOSED
		READING AREA	PUBLIC					SEMI-ENCLOSED
		SHELVES	PUBLIC					ENCLOSED
		PERIODICALS RACK	RESTRICTED					ENCLOSED
		STORE ROOM	RESTRICTED					ENCLOSED
		TOILET	PUBLIC					ENCLOSED
			20	30		600		
4	CAFE	COUNTER	PUBLIC					ENCLOSED
		SEATING	PUBLIC					SEMI-ENCLOSED
		KITCHEN	RESTRICTED					ENCLOSED
		WASH AREA	RESTRICTED					ENCLOSED
		TOILET	PUBLIC					ENCLOSED
			20	200		800		
5	AMPHITHEATRE	SEATING	PUBLIC					SEMI-ENCLOSED
6	GARDEN AREA	SCULPTURE GARDEN	PUBLIC					SEMI-ENCLOSED
		CHILDRENS PLAY AREA	PUBLIC					OPEN
		NORMAL GARDEN SPACE	PUBLIC					OPEN
7	PARKING	CAR PARKING	PUBLIC	20				
		BICYCLE PARKING	PUBLIC	60				
		BUS PARKING	PUBLIC					
		SECURITY CABIN	SEMI-PUBLIC					
			100	520		4805		

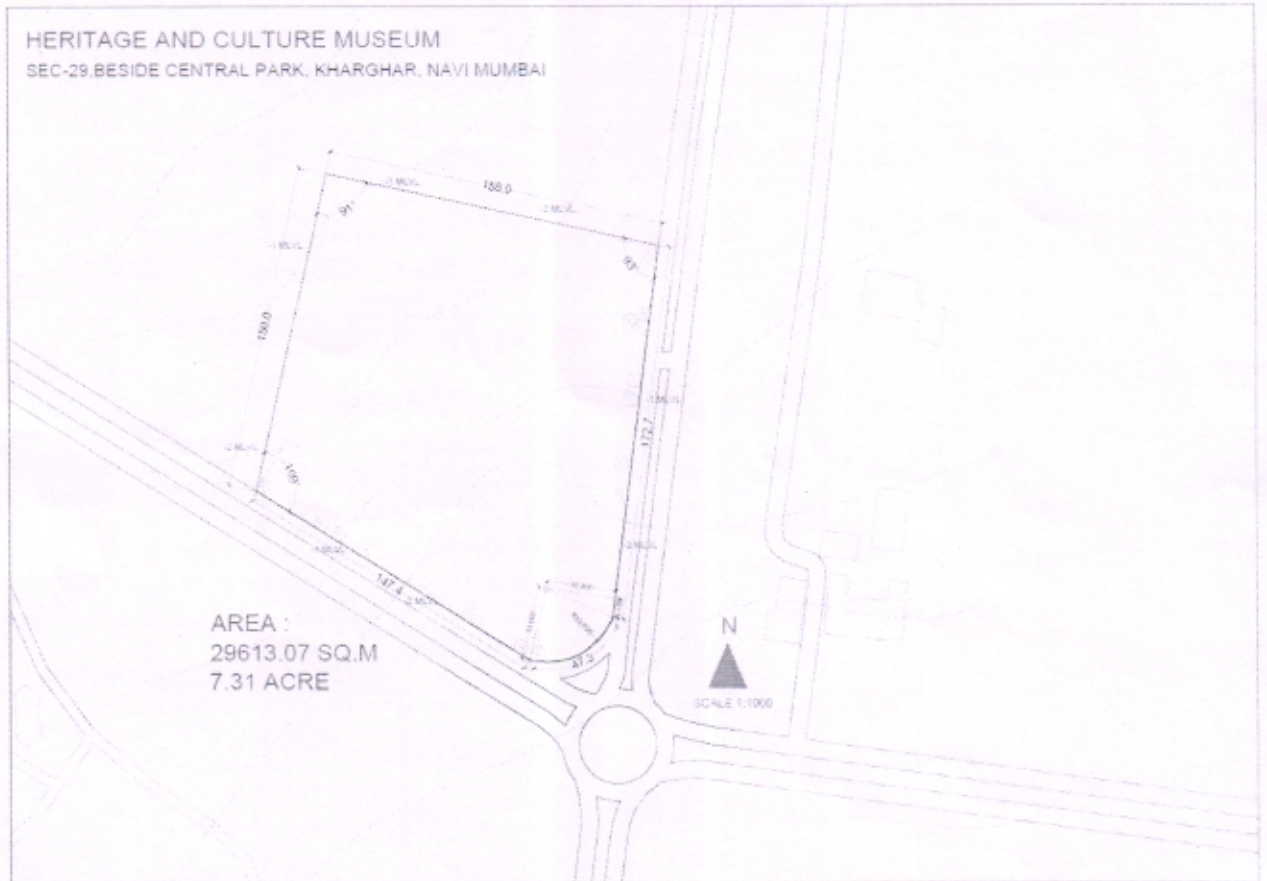


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## Site 2

Area = 29613.07 Sq.m/7.31 Acres

- Location- Sector 29, beside Central Park, Kharghar, Navi Mumbai-410210
- Coordinates - 19.059', 73.07
- Soil type - alluvial soil
- Wind flow -North Eastern
- Plot Area- 7.31 Acres / 29613.07 sq.m
- Main road- 24m wide road



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### 3. Marine Life Museum

A marine life museum, also known as an Oceanarium or an aquarium, is a facility that showcases various species of marine life in captivity for educational and entertainment purposes.

These museums are designed to provide visitors with an opportunity to learn about and appreciate the diverse aquatic ecosystems and the organisms that inhabit them.

It is a man-made display of marine living beings in their characteristic living space. It is somewhat of a saltwater aquarium for showing marine creatures and plants, especially oceanic, fishes and mammals. It does not only provide entertainment related to marine life but also covers a wide range of educational aspects and some research of the water world and seek and learn knowledge.

It includes all special and usual features to make it successful and attract and amuse visitors.

The proposed project is an Oceanarium, located at Panaji, Goa, one of the prime tourist location.

The project has been selected keeping in view the need of an Oceanarium to attract more tourists and visitors.

The proposed project is an Oceanarium, located at Panaji, Goa, one of the prime tourist location. The project has been selected keeping in view the need of an Oceanarium to attract more tourists and visitors.

Goa itself is known for its historical centre for tourism. This tourist place recorded tourist visitation of 28 lakhs including 4.45 lakhs foreign tourists.

Thus, 1/3rd of the existing footfall is expected to visit this facility.

People should be able to go through the journey of different marine species in their natural habitat through this Oceanarium and not just see them in a conventional tank



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## MARINE LIFE MUSEUM, PANAJI, GOA

### AREA PROGRAMME

SR. NO.	GROUP NAME	SPACE	TYPE OF AREA	CAPACITY			SPACE REQUIREMENT		TYPE OF SPACE
				STAFF	VISITORS	NOS.	NET AREA		
1	ADMINISTRATION	Entrance lounge	Public	3	10	1	110	Semi-enclosed	
		Tourist information	Public	1	3	1		Semi-enclosed	
		Book stall	Public	1	5	1		Semi-enclosed	
		Ticket counter	Public	3	15	3		Semi-enclosed	
		Toilets	Public	5	12	2		Enclosed	
		Director's cabin + Attached Toilet	Restricted	1	-	1	30	Enclosed	
		Supporting staff	Restricted	20	-	1	75	Enclosed	
		Accounts section	Restricted	5	-	1	20	Enclosed	
		Pantry	Restricted	5	-	1	15	Enclosed	
Recording room CCTV	Restricted	2	-	1	15	Enclosed			
							265 sq.mt.		
2	EXHIBITION SPACE								
2.1	Ocean Exploration Hall	Dolphin Exhibit tank	Public	4	20	1	1200 for 2 species, volume: 6000 mt. cube	Enclosed	
		Dolphin quarantine tank	Restricted	2	-	1	600 for 2 species, volume: 3000 mt. cube	Enclosed	
		Dolphinarium	Public	8	150	1	300	Enclosed	
		Coral reef tank	Public	2	20	1	450	Enclosed	
		Turtle pool	Public	2	20	1	75	Enclosed	
		Touch pool	Public	2	25	1	50	Semi-enclosed	
							1475 mt. sq.		
2.2	Main Aquarium Building	Pond Environment Display	Public	2	20	1	150	Enclosed	
		Tropical Freshwater display	Public	3	20	1	300	Enclosed	
		Exotic Freshwater Display	Public	2	20	1	250	Enclosed	
		Small Tanks for ornamental display	Public	2	20	1	180	Enclosed	
							240 mt. sq.		
3	AUXILIARY SPACES FOR MAIN AQUARIUM BUILDING	Trainer's room	Restricted	6	-	1	20	Enclosed	
		Trainers' changing rooms	Restricted	2	-	2	10	Enclosed	
		Toilets	Restricted	5	-	2	20	Enclosed	
		Workshop	Semi-Public	3	20	-	60	Enclosed	
		Equipment Storage rooms	Restricted	2	-	-	60	Enclosed	
		Husbandry Commissioner Rooms (Kitchen)	Restricted	5	-	1	40	Enclosed	
		Veterinary room	Restricted	2	-	1	30	Enclosed	
		Veterinary Pharmacy	Restricted	2	-	1	20	Enclosed	
							240 mt. sq.		
4	RESEARCH CELL	Entrance lobby, waiting area and enquiry office	Restricted	2	-	1	25	Enclosed	
		Office and back office	Restricted	10	-	1	40	Enclosed	
		Toilets	Restricted	6	-	2	30	Enclosed	
		Medical Chief Cabin	Restricted	1	-	1	15	Enclosed	
		Dissection room	Restricted	3	-	1	50	Enclosed	
		Water testing lab	Restricted	4	-	1	50	Enclosed	
		Biologist chief cabin	Restricted	2	-	1	50	Enclosed	
		Sterilization room	Restricted	2	-	1	50	Enclosed	
		Feeding preparation and storage	Restricted	5	-	2	50	Enclosed	
		Library	Restricted	15	-	1	50	Semi-enclosed	
		Pantry And storage (For staff)	Restricted	2	-	1	10	Semi-enclosed	
							450 mt. sq.		
5	BIODIVERSITY GALLERY	lobby	Public	1	7	1	25	Semi-enclosed	
		Conservation galleries (Marine heritage museum)	Public	2	20	1	150	Enclosed	
		Fossil Galleries	Public	2	20	1	150	Enclosed	
		AV Room	Public	1	15	1	25	Enclosed	
		Souvenir shop	Public	1	5	1	50	Enclosed	
							400 mt. sq.		
6	ACTIVITY SPACES	Aquatic Library	Public	2	15	1	50	Enclosed	
		Public Toilets	Public	-	12	2	40	Enclosed	
		Food Court	Public	10	50	1	200	Semi-enclosed	
		Multimedia area	Public	5	20	1	200	Semi-enclosed	
		Additional Landscape Areas	Public	-	-	-	-	Open	
							490 mt. sq.		
7	OTHER SERVICE AREAS	Sewage treatment tank	Restricted	-	-	-	-	Enclosed	
		Service area behind tanks	Restricted	-	-	-	-	Enclosed	
		Total service area, machine rooms and pump house	Restricted	-	-	-	-	Enclosed	
							400 mt. sq.		
8	OCEANARIUM SERVICE BLOCK	Pump and filter life support	Restricted	-	-	-	-	Enclosed	
		Water Control room	Restricted	-	-	-	-	Enclosed	
		Breeding lab	Restricted	-	-	-	-	Enclosed	
		Electrical room	Restricted	-	-	-	-	Enclosed	
		A.H.U.	Restricted	-	-	-	-	Enclosed	
							500 mt. sq.		
<b>TOTAL BUA = 4600 SQM + SERVICE BLOCK = 5000 SQ.M</b>									



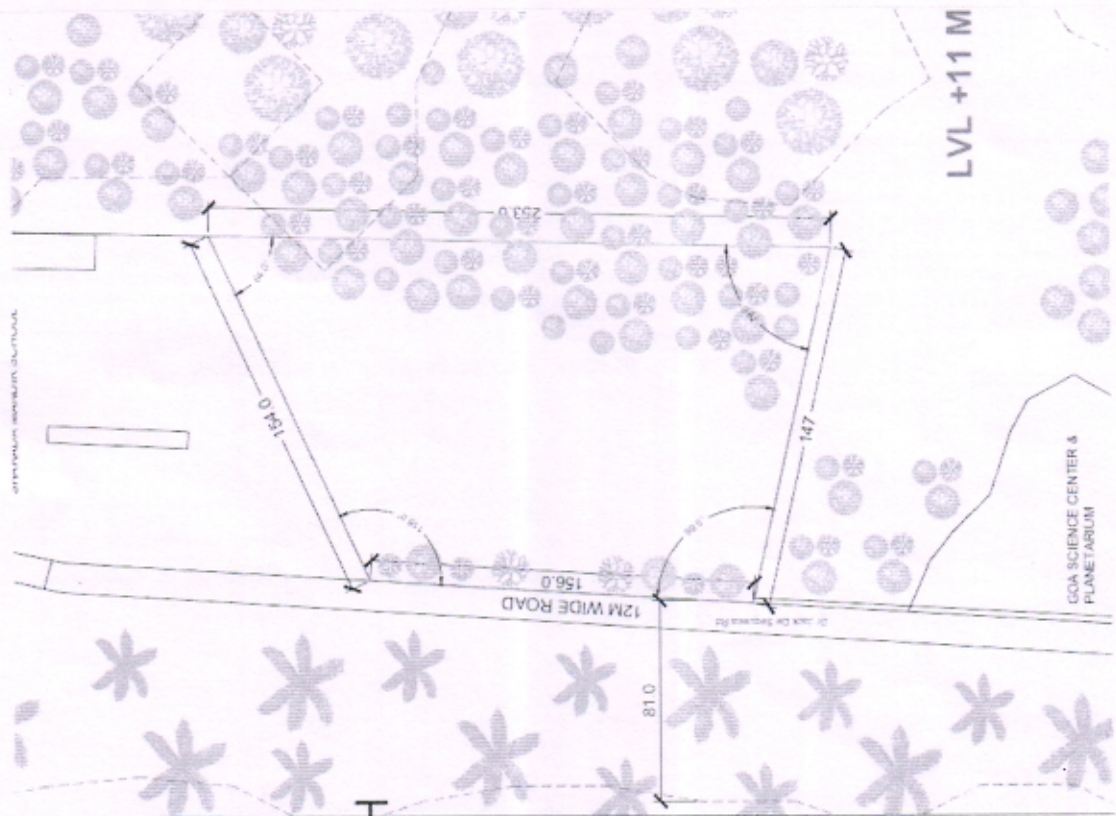
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### Site 3

Area = 28773.15 Sq.m/7.11 Acres

- Location- Dr Jack De Sequeira Rd, Miramar, Panaji, Goa 403001
- Coordinates - 15°28'46.5"N 73° 48'32.8"E 3.
- Soil type - lateritic sandy loam
- Wind flow - west to east
- Plot Area- 7.11 Acre / 28773.15 sq.m
- Main road- 12m wide road



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**Submission and Marking Schedule:**

**Architectural Design SEM 9 2023-24**

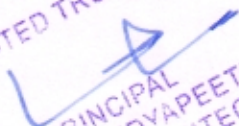
1. Case study presentation	27-06-2023
2. Site Analysis	04-07-2023
3. Conceptual sketches with zoning Layout	14-07-2023
4. Design Development –I	08-08-2023
5. Design Development –II	15-09-2023
6. Design Development –III	29-09-2023
Prefinal (Site plan, detailed floor plans (furniture layout, position of openings), elevations /sections/model	
7. Final folio	
All plans, elevations and sections and model	03-10-2023

Prof. Varsha Annadate

  
Prof. Vinita Deshmukh

Prof. Tejaswini H.M.



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SR.NO	EXPECTED OUTCOME	DATE
1	Syllabus Introduction	26-Dec-24
2	Research on Community Development	29-Dec-24
3	Elective Week	2-Jan-24
		5-Jan-24
4	Pinnacle Week	9-Jan-24
		12-Jan-24
5	Topic Introduction & Site Analysis	16-Jan-24
	Case Study briefing	19-Jan-24
5	Site Visit @ Velas	21-Jan-24
		24-Jan-24
7	Holiday	26-Jan-24
6	Documentation work of Study Tour	30-Jan-24
		2-Feb-24
8	Case Study & Site Analysis Discussion	6-Feb-24
9	Site & Slope Analysis Lecture	9-Feb-24
10	Case Study & Site Analysis Submission	13-Feb-24
11	Site Zoning & Concept Discussion	16-Feb-24
12	Site Zoning & Concept Marking	20-Feb-24
13	Single Line Plan Discussion	23-Feb-24
14	Single Line Plan Marking	27-Feb-24
16	Cross Jury	1-Mar-24
17	Double Line Plan Discussion	5-Mar-24
19	Holiday	8-Mar-24
20	Double Line Plan Marking	12-Mar-24
21	Cross Jury	15-Mar-24
22	Discussion on Section & Elevation	19-Mar-24
23	Section & Elevation Marking	22-Mar-24
24	Pre-Final I (Cross Jury)	26-Mar-24
25	Holiday	29-Mar-24
26	Pre-Final 2	2-Apr-24
27	Final Submission	5-Apr-24



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester IV- 2023-24 401 401 Architectural Design Studio 4 (Theory | regular)  
h Division B

## Course Outcome

Sr. No.	CO ID	Course Outcome
1	CO1	Students will be able to find out and select attributes of Architectural character through application of indigenous materials, construction technology from the documentation of a settlement in different regional and climatic context
2	CO2	Students will be able to comprehend site specific stimuli through responses to physical, climate, visual, cultural contexts from the documentation of a settlement in different regional and climatic context
3	CO3	Students will be able to apply zoning, activity distribution, circulation and activity relationships to multiple layering of architectural space
4	CO4	Students will be able to analyze passive solar responses and fenestration design from settlement study to test them in their own designs
5	CO5	Students will be able to appraise function and space studies as well as defined user group specific perception of space and compare it with their own design solutions
6	CO6	The course should prepare the students to develop their own suitable design language for architectural design of multicellular, multiple level spaces by application of principles of functionality, climate, composition, and aesthetics
7	CO7	Analyze the operational atmosphere of the vertical studio involving students in their fourth semester
8	CO8	Acquire the necessary graphic abilities and presentation techniques (including modeling and rendering) to effectively illustrate the concepts within a design



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester IV- Division B 2023-24 401 401 Architectural Design Studio 4 (Theory | regular)

## Learning/units outcome

Sr. No.	Id	Unit Outcome
1	U01	Site study and its Analysis
2	U02	Case study (National and International) and its Analysis.
3	U03	Site zoning and Concept
4	U04	Building planning (single Line Plan)
5	U05	All drawings of Design



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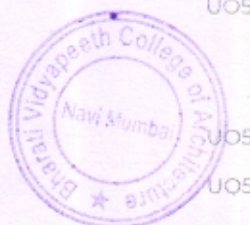
B. Arch Semester IV- Division B  
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2023-24

401 401 Architectural Design Studio 4 (Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
1	Introduction to the Topic		
1.1	Introduction to Topic	CO1	
1.2	Briefing about concept, case study and site analysis	CO1	
2	Design Brief		
2.1	Individual Discussion on Design Brief	CO2	
3	Case Studies		
3.1	Presentation on Online Case Studies (Group)	CO2	UO2
3.2	Presentation on Offline Case Studies (Individual)	CO2	UO2
4	Site Analysis		
4.1	Site Visit	CO3, CO4	UO1
4.2	Study of environment and context	CO3, CO4	UO1
4.3	Area statement and requirement	CO3, CO4	UO1
5	Site Zoning and Concept		
5.1	Lecture: Concept Understanding	CO5, CO6	UO3
5.2	Conceptual Ideas (Sketches)	CO5, CO6	UO3
5.3	Conceptual block site model	CO5, CO6	UO3
5.4	Concept Finalization marking	CO5, CO6	UO3
6	Floor planning		
6.1	Single Line Planning	CO7	UO4
7	Intermediate Jury		
7.1	cross Jury	CO3, CO4, CO5, CO6, CO7	UO1, UO2, UO3, UO4
7.2	Remedial Session 2 for Intermediate Marking	CO3, CO4, CO5, CO6, CO7	UO1, UO2, UO3, UO4
8	Drawing Finalization		
8.1	Site Plan	CO8	UO5
8.2	All Floor Plans	CO8	UO5
8.3	Sections	CO8	UO5
8.4	Elevations	CO8	UO5
8.5	Sectional View, Perspective Views, Models	CO8	UO5
9	Pre-final Submission		
9.1	Portfolio Submission	CO8	UO5
9.2	Jury	CO8	UO5



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester 2023-24 607 Architectural Representation and Detailing 6 (Theory | regular)  
h VI- Division  
B

## Course Outcome

Sr. No.	CO ID	Course Outcome
1	CO1	Understanding framed structure & Scale drawing ,different stages & process in construction of G+2 Floor RCC framed structure.
2	CO2	Understanding the working details for designed floor plans & making the appropriate changes.
3	CO3	Execute the learnings for Creating the Column layout ,Making the Schedule for columns & representing it plan, Section & details.
4	CO4	Realize the significance , importance & necessity of Working on the Setting out plan & Centre line plan for the execution of the project. Understanding the purpose of plinth beam ,walls& representing it plan, Section along with openings i.e. Doors & Window details.
5	CO5	Study and analyse the requisites of services like water supply, UG tank &OHT, drainage pipes , plumbing ,the design of respective systems, the challenges encountered, and the designing , Scheduling & representing it in working drawing .
6	CO6	Creating the Floor beam layout & slab layout with the sunk details and water proofing process for Terrace & Toilets
7	CO7	Understanding Kitchen ,Toilet and staircase Details . Study and analyse the prerequisites of services, particularly water supply in high-rise structures, the sourcing of water, the design of respective water distribution systems, the challenges encountered, and the safety concerns associated thereto
8	CO8	Student will grasp the knowledge & Understanding of working drawing along with Execution process & stages for RCC G+2 Framed structure.

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# Bharati Vidyapeeth College of Architecture, Navi Mumbai


B. Arch Semester VI- Division B 2023-24 607 Architectural Representation and Detailing 6 (Theory | regular)

## Learning/units outcome

Sr. No.	Id	Unit Outcome
1	U01	G 2 floors School Building plan
2	U02	Working drawing for all the floors
3	U03	Working drawing - Setting out plan
4	U04	Working drawing - Center Line plan
5	U05	Working drawing - Foundation and plinth beam plan
6	U06	Working drawing - Terrace Floor Plan
7	U07	Working drawing - Sections and Elevations
8	U08	Working drawing - OHT tank with calculations and Any other services details



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester VI- Division B  
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2023-24

607 Architectural Representation and Detailing 6  
(Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
1	Introduction		
1.1	Introduction to the Semester 6 Syllabus		
2	Floor Plans		
2.1	Lecture: Column placement in floor plans	CO1, CO2	U01
2.2	Studio: Column placement in floor plans	CO1, CO2	U01
3	Working Drawing Layouts		
3.1	Lecture: Setting out layout	CO4	U03
3.2	Studio: Setting out layout	CO4	U03
3.3	Lecture: Center Line plan with numbering and dimensions	CO3, CO4	U04
3.4	Studio: Center Line plan with numbering and dimensions	CO3, CO4	U04
3.5	Lecture: Plinth Beam Layout	CO3, CO4	U04, U05
3.6	Studio: Plinth Beam Layout	CO3, CO4	U04, U05
3.7	Lecture: Detailing of floor plans, Terrace floor plan detailing with water drainage	CO2, CO3	U01, U02
3.8	Studio: Detailing of floor plans, Terrace floor plan detailing with water drainage	CO2, CO3	U01, U02
4	Intermediate marking - 1		
4.1	Intermediate marking Jury	CO1, CO2, CO4, CO5, CO6, CO7, CO8	
4.2	Remedial Session - 1	CO1, CO2, CO4, CO5, CO6, CO7, CO8	
5	Working Drawing Detailing		
5.1	Lecture: Sections	CO6, CO8	U07
5.2	Studio: Sections	CO6, CO8	U07
5.3	Lecture: Elevation	CO6, CO8	U07
5.4	Studio: Elevation	CO6, CO8	U07
5.5	Lecture: Toilet, canopy, flooring details, UGT and OHT Placement	CO7	U08
5.6	Studio: Toilet, canopy, flooring details, UGT and OHT Placement	CO7	U08
5.7	Lecture: Staircase, Lift Placement	CO7	
5.8	Studio: Staircase, Lift Placement	CO7	

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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester IV- Di 2023-24 403 403 Architectural Building Construction & Materials 4 (Theory | regular)  
h vision C

## Course Outcome

Sr. No.	CO ID	Course Outcome
1	CO1	Introduce Students to Structural framing in steel for low rise medium span buildings.
2	CO2	Students should understand the methods of construction of various components of steel structures like foundation system, flooring system, wall cladding system.
3	CO3	Understanding the roofing system, concept of trusses for low rise medium span buildings.
4	CO4	Students should know about the moisture and fire protections in steel framed low rise medium span buildings
5	CO5	Understanding the entire system of RCC framework starting from foundation till roof.
6	CO6	Students should know the construction process of both framed structures and Steel structure



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester VI- Division B  
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2023-24

607 Architectural Representation and Detailing 6  
(Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
5.9	Lecture: Printing WD in layout		
6	PRE FINAL SUBMISSION		
6.1	PRE FINAL SUBMISSION		



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai


B. Arch Semester IV- Division C 2023-24 403 403 Architectural Building Construction & Materials 4 (Theory | regular)

## Learning/units outcome

Sr. No.	Id	Unit Outcome
1	U01	Understanding the concepts of steel structure and its importance.
2	U02	Implementation of the steel construction in the substructure.
3	U03	Understanding the Superstructure in the Steel Construction.
4	U04	Weather protection techniques for the steel construction.



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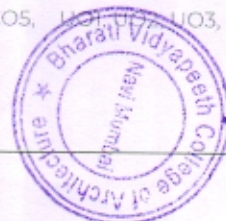
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B. Arch Semester IV- Division C 2023-24


403 403 Architectural Building Construction & Materials 4  
(Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
1	Steel Structures		
1.1	Introduction to the syllabus about Steel Structures	CO1, CO2	U01
1.2	Lecture: Steel Structures	CO1, CO2	U01
1.3	Studio: Steel Structures	CO1, CO2	U01
2	Steel Structural Members - Substructure		
2.1	Lecture: Foundation	CO3	U02
2.2	Studio: Foundation	CO3	U02
3	Steel Structural Members - Superstructure		
3.1	Lecture: floors / slabs	CO5	U04
3.2	Studio: Floors/ Slabs	CO5	U04
3.3	STUDIO: Column and beam connections	CO4	U03
3.4	Lecture: Roof	CO6	U01
3.5	LECTURE: Columns and Beams (connections).	CO4	U03
3.6	Studio: Roof	CO6	U01
3.7	Lecture: Staircase	CO6	U01
3.8	Studio: staircase	CO6	U01
4	Weather Protection in Steel		
4.1	Lecture: Moisture Protection	CO6	U01
4.2	Studio: Moisture Protection	CO6	U01
4.3	Lecture: Fire Protection	CO6	U01
4.4	Studio: Fire Protection	CO6	U01
5	FINAL PORTFOLIO SUBMISSION	CO1, CO2, CO3, CO4, CO5, CO6	U01, U02, U03, U04
5.1	SUBMISSION	CO1, CO2, CO3, CO4, CO5, CO6	U01, U02, U03, U04
5.2	REMEDIAL	CO1, CO2, CO3, CO4, CO5, CO6	U01, U02, U03, U04



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester 2023-24 607 Architectural Representation and Detailing 6 (Theory | regular)  
h VI- Division  
B

## Course Outcome

Sr. No.	CO ID	Course Outcome
1	CO1	Understanding framed structure & Scale drawing ,different stages & process in construction of G+2 Floor RCC framed structure.
2	CO2	Understanding the working details for designed floor plans & making the appropriate changes.
3	CO3	Execute the learnings for Creating the Column layout ,Making the Schedule for columns & representing it plan, Section & details.
4	CO4	Realize the significance , importance & necessity of Working on the Setting out plan & Centre line plan for the execution of the project. Understanding the purpose of plinth beam ,walls& representing it plan, Section along with openings i.e. Doors & Window details.
5	CO5	Study and analyse the requisites of services like water supply, UG tank &OHT, drainage pipes , plumbing ,the design of respective systems, the challenges encountered, and the designing , Scheduling & representing it in working drawing .
6	CO6	Creating the Floor beam layout & slab layout with the sunk details and water proofing process for Terrace & Toilets
7	CO7	Understanding Kitchen ,Toilet and staircase Details . Study and analyse the prerequisites of services, particularly water supply in high-rise structures, the sourcing of water, the design of respective water distribution systems, the challenges encountered, and the safety concerns associated thereto
8	CO8	Student will grasp the knowledge & Understanding of working drawing along with Execution process & stages for RCC G+2 Framed structure.



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B. Arch Semester VI- Division B 2023-24 607 Architectural Representation and Detailing 6 (Theory | regular)

## Learning/units outcome

Sr. No.	Id	Unit Outcome
1	U01	G 2 floors School Building plan
2	U02	Working drawing for all the floors
3	U03	Working drawing - Setting out plan
4	U04	Working drawing - Center Line plan
5	U05	Working drawing - Foundation and plinth beam plan
6	U06	Working drawing - Terrace Floor Plan
7	U07	Working drawing - Sections and Elevations
8	U08	Working drawing - OHT tank with calculations and Any other services details



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B. Arch Semester VI- Division B


2023-24

607 Architectural Representation and Detailing 6  
(Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
1	Introduction		
1.1	Introduction to the Semester 6 Syllabus		
2	Floor Plans		
2.1	Lecture: Column placement in floor plans	CO1, CO2	U01
2.2	Studio: Column placement in floor plans	CO1, CO2	U01
3	Working Drawing Layouts		
3.1	Lecture: Setting out layout	CO4	U03
3.2	Studio: Setting out layout	CO4	U03
3.3	Lecture: Center Line plan with numbering and dimensions	CO3, CO4	U04
3.4	Studio: Center Line plan with numbering and dimensions	CO3, CO4	U04
3.5	Lecture: Plinth Beam Layout	CO3, CO4	U04, U05
3.6	Studio: Plinth Beam Layout	CO3, CO4	U04, U05
3.7	Lecture: Detailing of floor plans, Terrace floor plan detailing with water drainage	CO2, CO3	U01, U02
3.8	Studio: Detailing of floor plans, Terrace floor plan detailing with water drainage	CO2, CO3	U01, U02
4	Intermediate marking - 1		
4.1	Intermediate marking Jury	CO1, CO2, CO4, CO5, CO6, CO7, CO8	
4.2	Remedial Session - 1	CO1, CO2, CO4, CO5, CO6, CO7, CO8	
5	Working Drawing Detailing		
5.1	Lecture: Sections	CO6, CO8	U07
5.2	Studio: Sections	CO6, CO8	U07
5.3	Lecture: Elevation	CO6, CO8	U07
5.4	Studio: Elevation	CO6, CO8	U07
5.5	Lecture: Toilet, canopy, flooring details, UGT and OHT Placement	CO7	U08
5.6	Studio: Toilet, canopy, flooring details, UGT and OHT Placement	CO7	
5.7	Lecture: Staircase, Lift Placement	CO7	
5.8	Studio: Staircase, Lift Placement	CO7	



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arc Semester VI- Division B  
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2023-24

607 Architectural Representation and Detailing 6  
(Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
5.9	Lecture: Printing WD in layout		
6	PRE FINAL SUBMISSION		
6.1	PRE FINAL SUBMISSION		



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester IX- Division B  
2023-24

902 902 Allied Design Studio 8 (Theory | regular)

## Course Outcome

Sr. No.	CO ID	Course Outcome
1	CO1	Highlighting the importance of town planning and outlining the scope for the students.
2	CO2	Students will understand the concepts and theories of town planning. Students will summarize the concepts and theories related to town planning.
3	CO3	Students will apply the data collection and different analysis methods to the collected data.
4	CO4	Linking and analysing the impact of town planning theories, concepts and planning factors.
5	CO5	After assessment, students will get the reviews on assignments of town planning authorities.
6	CO6	The student will research about the planning authorities and will write a detailed report on functions of town planning authorities.
7	CO7	Students will develop the practical understanding of the subject and will do the case study to understand it in detail
8	CO8	Students will understand the importance of authorities and acts and strategies related to the subject.



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester IX- Division B 2023-24 902 902 Allied Design Studio 8 (Theory | regular)

## Learning/units outcome

Sr. No.	Id	Unit Outcome
1	U01	Presentation on the evolution of the City
2	U02	Report Writing on Industrial Revolution
3	U03	Report writing on Modern Concepts and New Towns
4	U04	Comparative study %u2013 Regional Plan and Development Plan
5	U05	Report Writing on Types of Surveys
6	U06	Case Analysis



# Bharati Vidyapeeth College of Architecture, Navi Mumbai


B. Arch Semester V 2023-24  
h - Division A

505 505 Humanities 5 (Theory | regular)

## Course Outcome

Sr. No.	CO ID	Course Outcome
1	CO1	Students should be able to Analyse the linkages between art and architecture and the social, cultural, political and economic context of the period. For example. Understanding the Timeline under Art and architecture.
2	CO2	Students should Articulate the theme of Modern and Post-modern movements in art and architecture during the wars and deconstruct the architectural evolution developments in technology and structural systems.
3	CO3	Students should be able to Review the critical, philosophical and regionalism influences on architecture. Students should be able associate the Art and Architecture in the Indian Context with respect to the influence of Modernism and famous Indian Modernists.
4	CO4	Students should be able to Articulate the various architecture setups and distinctive features of various periods. For e.g. From 1870 to 2000, Period movements.
5	CO5	Students should be able to Understand the Influence of Vistara and the validation of Vernacular Architecture.
6	CO6	Students should be able to Associate the influence of Le Corbusier, Louis Kahn and Indian Modernists in the context of Indian Architecture.



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester IX- Division B  
h

2023-24

902 902 Allied Design Studio 8 (Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
6.3	Lecture: Different types of urban institutional bodies, their function, different Acts and their provisions	CO6, CO7	UO6
6.4	Studio: Class Notes Completion		
7	Transportation Planning		
7.1	Lecture: Importance of transportation planning in town planning, hierarchy of roads, role of transportation authorities	CO8	UO6
7.2	Studio: Transportation planning in town planning, hierarchy of roads	CO8	UO6
8	Revision Session	CO4, CO5, CO6, CO7, CO8	
8.1	Question Answer - Industrial Revolution and Modern Concepts	CO1, CO2, CO3	UO1, UO2, UO3
8.2	Question Answer - Planning Theories and Transportation	CO4, CO5, CO6, CO7, CO8	UO4, UO5, UO6
8.3	Final Submission		



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arc Semester IX- Division B  
h

2023-24

902 902 Allied Design Studio 8 (Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
1	Introduction to the Town Planning Syllabus		
1.1	Introduction to the Syllabus	CO1, CO2, CO3, CO4, CO5, CO6, CO7, CO8	UO1, UO2, UO3, UO4, UO5, UO6
1.2	Lecture: Introduction to exercise – Evolution of City	CO1	UO1
1.3	Studio: Evolution of City Student's Presentation	CO1	UO1
2	Industrial revolution	CO1	UO2
2.1	Lecture: History of Town Planning	CO1	UO2
2.2	Lecture: Industrial revolution and its effect on urban areas	CO1	UO2
2.3	Studio: Report Writing on Industrial Revolution	CO1	UO2
3	Modern concepts in Town Planning		
3.1	Lecture: Contribution by Sir Ebenezer Howard, Le Corbusier, Ernest Burgess	CO2	UO3
3.2	Lecture: contribution by Patrick Geddes, Tony Garnier, Horner Hoyt	CO2	UO3
3.3	Lecture: contribution by Harries and Ullman, FL Wright, Clarence Perry - Concept of New Towns	CO2	UO3
3.4	Studio: Report writing on Modern Concepts	CO2	UO3
4	Planning theories		
4.1	Lecture: Concept of Comprehensive planning Approach – 3 Tier planning	CO3, CO4, CO5	UO4
4.2	Lecture: Different types of plans and their hierarchy	CO3, CO4, CO5	UO4
4.3	Lecture: Details of Regional plan, Development plan etc.	CO3, CO4, CO5	UO4
4.4	Studio: Report Writing on Details of Regional plan, Development plan etc.	CO3, CO4, CO5	UO4
5	Remedial Session: Industrial Revolution and Modern Concepts	CO1, CO2	UO1, UO2
6	Planning Theory and techniques		
6.1	Lecture: Different types of surveys in planning process - local area survey, existing land use survey, landscape surveys, transportation survey etc.	CO6	UO5
6.2	Studio: Report Writing on the types of Surveys	CO6	UO5



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester V- Division A 2023-24 505 505 Humanities 5 (Theory | regular)

## Learning/units outcome

Sr. No.	Id	Unit Outcome
1	UO1	To Understand the Art Movements, Artists and their Painting Theory.
2	UO2	To understand Modern Architecture movements.



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Arch Semester V- Division A  
h

2023-24

505 505 Humanities 5 (Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
1	Art Movements		
1.1	Lecture: Introduction to the syllabus	CO1, CO2, CO3, CO4, CO5, CO6	UO1, UO2
1.2	Studio: Report Writing on the Modern Architecture	CO1, CO2, CO3, CO4, CO5, CO6	UO1, UO2
1.3	Lecture: Art Movements from 1870s to 2000 Period Movements	CO4	UO1
1.4	Studio: Class Notes Completion on the Art Movements	CO4	UO1
1.5	Lecture: Architecture evolution Influenced by developments in technology and structural systems	CO1	UO1
1.6	Lecture: Postmodern (late-modern) Movements in art and architecture	CO2	UO1
1.7	Lecture: Critical and philosophical influences on architecture after the 1980s Critical Regionalism Deconstruction	CO2, CO3	UO1
1.8	Studio: Class notes completion on Critical Regionalism Deconstruction	CO2, CO3	UO1
1.9	Lecture: Architectural and art trends in the first decade of the millennium	CO2, CO3	UO1
2	Architecture Movements		
2.1	Lecture: Art and Architecture In India since Independence	CO5	UO2
2.2	Lecture: Modernism Architecture for the State	CO5	UO2
2.3	Studio: Completion of class Notes on the Modern Architecture in India	CO5	UO2
2.4	Lecture: Influence of Le Corbusier and Kahn on Indian modernists	CO6	UO2
2.5	Studio: Assignment Completion on the Le Corbusier Principles.	CO6	UO2
2.6	Lecture: The influence of Vistara and the validation of the vernacular	CO5	UO2
3	Revision Session		
4	Final Submission		
5	Class Test	CO1, CO2, CO3, CO4, CO5, CO6	UO1, UO2

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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. Semest 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)  
ID er V

## Course Outcome

Sr. No.	CO ID	Course Outcome
1	CO 1	Student should be able to prepare working drawing and details of Residential furniture systems using various materials such as wood, plywood, block boards, artificial boards, metal, glass, stone etc in various finishes.
2	CO 2	Student should be able to prepare working drawing and related details of the Executive Desk with side / back credenza.
3	CO 3	Student should be able to prepare working drawing and related details of the Reception Counter.
4	CO 4	Student should be able to prepare working drawing and related details of the Conference Table
5	CO 5	Student will be able to prepare working drawing and related details of the Reception Counter Shop front / Show window
6	CO 6	Student will be able to prepare working drawing and related details of the Bank Counter/Ticket booking Counter
7	CO 7	Student will be able to prepare working drawing and related details of the Reception Counter Bar Counter/Pantry Counter
8	CO 8	Student will be able to prepare working drawing and related details of the Modular furniture systems as well as furniture for differently abled person.



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# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. ID

Semester V 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)

## Proposed Planning

Lecture No.	Date	Time	Hrs	Minutes	Syllabus To Be Proposed	Course Outcome	Unit Outcome
1	07th June, 2023	11:00 AM- 12:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
2	07th June, 2023	12:00 PM- 01:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
3	07th June, 2023	01:45 PM- 02:45 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
4	13th June, 2023	08:45 AM- 09:45 AM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
5	13th June, 2023	09:45 AM- 10:45 AM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
6	14th June, 2023	11:00 AM- 12:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
7	14th June, 2023	12:00 PM- 01:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
8	14th June, 2023	01:45 PM- 02:45 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
9	20th June, 2023	08:45 AM- 09:45 AM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
10	20th June, 2023	09:45 AM- 10:45 AM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
11	21st June, 2023	11:00 AM- 12:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
12	21st June, 2023	12:00 PM- 01:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
13	21st June, 2023	01:45 PM- 02:45 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
14	27th June, 2023	08:45 AM- 09:45 AM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	
15	27th June, 2023	09:45 AM- 10:45 AM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 04 ,CO 5,CO 6,C 07,CO8	

# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. ID

Semester V 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)

## Proposed Planning

Lecture No.	Date	Time	Hrs	Minutes	Syllabus To Be Proposed	Course Outcome	Unit Outcome
16	28th June, 2023	11:00 AM- 12:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 4 ,CO 5,CO 6,C O7,CO8	
17	28th June, 2023	12:00 PM- 01:00 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 4 ,CO 5,CO 6,C O7,CO8	
18	28th June, 2023	01:45 PM- 02:45 PM	18.00	0	Introduction to furniture as per syllabus	CO 1,CO 2,CO 3,CO 4 ,CO 5,CO 6,C O7,CO8	
19	04th July, 2023	08:45 AM- 09:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
20	04th July, 2023	09:45 AM- 10:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
21	05th July, 2023	11:00 AM- 12:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
22	05th July, 2023	12:00 PM- 01:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
23	05th July, 2023	01:45 PM- 02:45 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
24	11th July, 2023	08:45 AM- 09:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
25	11th July, 2023	09:45 AM- 10:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
26	12th July, 2023	11:00 AM- 12:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
27	12th July, 2023	12:00 PM- 01:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
28	12th July, 2023	01:45 PM- 02:45 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
29	18th July, 2023	08:45 AM- 09:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
30	18th July, 2023	09:45 AM- 10:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
31	19th July, 2023	11:00 AM- 12:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	

# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. ID Semester V 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)

## Proposed Planning

Lecture No.	Date	Time	Hrs	Minutes	Syllabus To Be Proposed	Course Outcome	Unit Outcome
32	19th July, 2023	12:00 PM- 01:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
33	19th July, 2023	01:45 PM- 02:45 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
34	25th July, 2023	08:45 AM- 09:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
35	25th July, 2023	09:45 AM- 10:45 AM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
36	26th July, 2023	11:00 AM- 12:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
37	26th July, 2023	12:00 PM- 01:00 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
38	26th July, 2023	01:45 PM- 02:45 PM	20.00	0	2. Furniture for differently abled	CO 1,CO8	
39	01st August, 2023	08:45 AM- 09:45 AM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
40	01st August, 2023	09:45 AM- 10:45 AM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
41	02nd August, 2023	11:00 AM- 12:00 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
42	02nd August, 2023	12:00 PM- 01:00 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
43	02nd August, 2023	01:45 PM- 02:45 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
44	08th August, 2023	08:45 AM- 09:45 AM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
45	08th August, 2023	09:45 AM- 10:45 AM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
46	09th August, 2023	11:00 AM- 12:00 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
47	09th August, 2023	12:00 PM- 01:00 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	

# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. ID

Semester V 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)

## Proposed Planning

Lecture No.	Date	Time	Hrs	Minutes	Syllabus To Be Proposed	Course Outcome	Unit Outcome
48	09th August, 2023	01:45 PM- 02:45 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
49	15th August, 2023	08:45 AM- 09:45 AM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
50	15th August, 2023	09:45 AM- 10:45 AM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
51	16th August, 2023	11:00 AM- 12:00 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
52	16th August, 2023	12:00 PM- 01:00 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
53	16th August, 2023	01:45 PM- 02:45 PM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
54	22nd August, 2023	08:45 AM- 09:45 AM	16.00	0	1. Executive Desk with side / back credenza.	CO 1,CO 2	
55	22nd August, 2023	09:45 AM- 10:45 AM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
56	23rd August, 2023	11:00 AM- 12:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
57	23rd August, 2023	12:00 PM- 01:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
58	23rd August, 2023	01:45 PM- 02:45 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
59	29th August, 2023	08:45 AM- 09:45 AM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
60	29th August, 2023	09:45 AM- 10:45 AM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
61	30th August, 2023	11:00 AM- 12:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
62	30th August, 2023	12:00 PM- 01:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
63	30th August, 2023	01:45 PM- 02:45 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	

# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. ID

Semester V 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)

## Proposed Planning

Lecture No.	Date	Time	Hrs	Minutes	Syllabus To Be Proposed	Course Outcome	Unit Outcome
64	05th September, 2023	08:45 AM- 09:45 AM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
65	05th September, 2023	09:45 AM- 10:45 AM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
66	06th September, 2023	11:00 AM- 12:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
67	06th September, 2023	12:00 PM- 01:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
68	06th September, 2023	01:45 PM- 02:45 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
69	12th September, 2023	08:45 AM- 09:45 AM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
70	12th September, 2023	09:45 AM- 10:45 AM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
71	13th September, 2023	11:00 AM- 12:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
72	13th September, 2023	12:00 PM- 01:00 PM	18.00	0	2. Bank Counter/Ticket booking Counter	CO 1,CO 6	
73	13th September, 2023	01:45 PM- 02:45 PM	18.00	0	3. Bar Counter	CO 1,CO7	
74	19th September, 2023	08:45 AM- 09:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
75	19th September, 2023	09:45 AM- 10:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
76	20th September, 2023	11:00 AM- 12:00 PM	18.00	0	3. Bar Counter	CO 1,CO7	
77	20th September, 2023	12:00 PM- 01:00 PM	18.00	0	3. Bar Counter	CO 1,CO7	
78	20th September, 2023	01:45 PM- 02:45 PM	18.00	0	3. Bar Counter	CO 1,CO7	
79	26th September, 2023	08:45 AM- 09:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
80	26th September, 2023	09:45 AM- 10:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
81	27th September, 2023	11:00 AM- 12:00 PM	18.00	0	3. Bar Counter	CO 1,CO7	

# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. ID

Semester V 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)

## Proposed Planning

Lecture No.	Date	Time	Hrs	Minutes	Syllabus To Be Proposed	Course Outcome	Unit Outcome
82	27th September, 2023	12:00 PM- 01:00 PM	18.00	0	3. Bar Counter	CO 1,CO7	
83	27th September, 2023	01:45 PM- 02:45 PM	18.00	0	3. Bar Counter	CO 1,CO7	
84	03rd October, 2023	08:45 AM- 09:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
85	03rd October, 2023	09:45 AM- 10:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
86	04th October, 2023	11:00 AM- 12:00 PM	18.00	0	3. Bar Counter	CO 1,CO7	
87	04th October, 2023	12:00 PM- 01:00 PM	18.00	0	3. Bar Counter	CO 1,CO7	
88	04th October, 2023	01:45 PM- 02:45 PM	18.00	0	3. Bar Counter	CO 1,CO7	
89	10th October, 2023	08:45 AM- 09:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
90	10th October, 2023	09:45 AM- 10:45 AM	18.00	0	3. Bar Counter	CO 1,CO7	
91	11th October, 2023	11:00 AM- 12:00 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
92	11th October, 2023	12:00 PM- 01:00 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
93	11th October, 2023	01:45 PM- 02:45 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
94	17th October, 2023	08:45 AM- 09:45 AM	16.00	0	Working drawing of conference table	CO 1,CO4	
95	17th October, 2023	09:45 AM- 10:45 AM	16.00	0	Working drawing of conference table	CO 1,CO4	
96	18th October, 2023	11:00 AM- 12:00 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
97	18th October, 2023	12:00 PM- 01:00 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
98	18th October, 2023	01:45 PM- 02:45 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
99	24th October, 2023	08:45 AM- 09:45 AM	16.00	0	Working drawing of conference table	CO 1,CO4	

# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. ID

Semester V 2023-24 502 502 Interior Working Drawing 2 (Theory | regular)

## Proposed Planning

Lecture No.	Date	Time	Hrs	Minutes	Syllabus To Be Proposed	Course Outcome	Unit Outcome
100	24th October, 2023	09:45 AM- 10:45 AM	16.00	0	Working drawing of conference table	CO 1,CO4	
101	25th October, 2023	11:00 AM- 12:00 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
102	25th October, 2023	12:00 PM- 01:00 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
103	25th October, 2023	01:45 PM- 02:45 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
104	31st October, 2023	08:45 AM- 09:45 AM	16.00	0	Working drawing of conference table	CO 1,CO4	
105	31st October, 2023	09:45 AM- 10:45 AM	16.00	0	Working drawing of conference table	CO 1,CO4	
106	01st November, 2023	11:00 AM- 12:00 PM	16.00	0	Working drawing of conference table	CO 1,CO4	
107	01st November, 2023	12:00 PM- 01:00 PM					
108	01st November, 2023	01:45 PM- 02:45 PM					
109	07th November, 2023	08:45 AM- 09:45 AM					
110	07th November, 2023	09:45 AM- 10:45 AM					
111	08th November, 2023	11:00 AM- 12:00 PM					
112	08th November, 2023	12:00 PM- 01:00 PM					
113	08th November, 2023	01:45 PM- 02:45 PM					

# Bharati Vidyapeeth College of Architecture, Navi Mumbai

B. Voc. I Semester V  
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2023-24

502 502 Interior Working Drawing 2 (Theory | regular)

## Units(Syllabus Report)

Sr. No.	Units	Course Outcome (CO)	Unit Outcome/Learning Outcome (UO/LO)
1	Introduction to furniture as per syllabus	CO 1, CO 2, CO 3, CO4 , CO 5, CO 6, CO7, CO8	
2	1. Conference Table	CO 1, CO4	
3	2. Furniture for differently abled	CO 1, CO8	
4	1. Executive Desk with side / back credenza.	CO 1, CO 2	
5	2. Bank Counter/Ticket booking Counter	CO 1, CO 6	
6	3. Bar Counter	CO 1, CO7	
7	Working drawing of conference table	CO 1, CO4	



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