Criteria 1 – Curricular Aspects

Key Indicator- 1.2 Academic Flexibility

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1.2.1.1. Number of Programmes in which CBCS/ Elective course system implemented

Year	2023-24
Number	1

TABLE OF CONTENT

Sr. No	Content (Document)
1.	List of Elective
2.	Sample Course Plan, Attendance, Marking, Unit Completion
3.	Course structure/Syllabus
4.	Elective list as per syllabus

Vidyanagari, Bhigwan Road, Baramati, Dist- Pune (Maharashtra) - 413 133, India.
Phone- 02112 239540, 239545 Fax- 02112 239159
E-mail- principal.vpsoa@vidyapratishthan.com Web- www.vpsoa.org

Criteria 1 – Curricular Aspects

Key Indicator- 1.2 Academic Flexibility

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

1. **List of Elective**

Year of introduction	Course name	Course code	class
2019-20 (2019 pattern)	Elective-I (Contemporary Architecture)	3201940 [SS]	Third Year 1st Sem
	Elective-II (Culture in Architecture)	3201949 [SS]	Third Year 2nd Sem
	Elective-III (Interior Design) and (Green Building Rating System	4201957 [SS]	Fourth year 1st Sem
	Elective-IV (Colonial Architecture) and (Tensile Structure) Elective-IV (Colonial Architecture) and (Tensile Structure)	4201963 [SS]	Fourth Year 1st Sem
	Elective-V (Mud Architecture) and (Vernacular Architecture)	4201964 [SS]	Fourth year 2nd Sem
	Elective-VI (Photography)	4201957 [SS]	Fifth year 2nd Sem

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Vidya Pratishthan's
SCHOOL OF ARCHITECTURE, BARAMATI
Vidyanagari,Baramati Dist.Pune 413133

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Criteria 1 – Curricular Aspects

Key Indicator- 1.2 Academic Flexibility

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

2. Sample Course Plan, Attendance, Marking, Unit Completion

COURSE PLAN

Subject: Elective V (Mud Architecture)	**Faculty: Ar. Prerna Thakare**	
Class: Third Year B. Arch	**Year:** 2023-24	**Term:** II **Semester:** VIII **Pattern:** 2019
Course Code	4201964 (SS)	
Teaching Scheme	**Examination Scheme**	
Total Contact Hours per week (lectures=1 Studio=2, Total = 3)	Sessional [Int 25 + Ext 25]	50
	In semester exam	NIL
	End Semester exam	NIL
	Total Marks	50
	Total Credits	02

1. COURSE AIM:

The aim of mud architecture is to utilize earth materials, not only as building materials but also as a source of passive thermal comfort, personal well-being, and environmental health. By utilizing mud as the primary building material, mud architecture seeks to create designs and structures that are sustainable, affordable, low maintenance, and in harmony with the local environment. The ultimate goal of mud architecture is to encourage the use of earth architecture and to promote the preservation of traditional building techniques, local craftsmanship, and cultural identity.

2. COURSE OBJECTIVES:

- To learn the basics and principles of designing with mud, including the importance of using locally-sourced material, design methods, and the collaboration with local artisans.
- To understand the role of mud in the history and culture of local peoples and how this relates to current practice.
- To apply the use of masonry techniques such as adobe, rammed earth, and cob.
- To consider the sustainability and energy efficiency of a mud architecture project.

3. COURSE CONTENT:

UNIT I : Introduction to Mud Architecture
Understanding the historical and cultural significance of mud architecture.
Exploring the advantages and limitations of using mud as a construction material.

UNIT II : Mud as a Building Material
Study the different types of soils suitable for mud construction.
Learn about soil testing and preparation techniques for optimizing the properties of mud for construction.

UNIT III : Mud Construction Techniques:
Discover traditional and contemporary techniques for mud construction, such as adobe, cob, rammed earth, compressed earth blocks and Wattle and Daub.

UNIT IV : Sustainable Design in Mud Architecture
Explore the sustainable aspects of mud architecture, such as thermal insulation, humidity regulation, and the use of natural materials.

UNIT V : Case Studies and Analysis:
Analyze case studies of successful mud architecture projects from around the world.
Identify design strategies, techniques, and innovations in the field of mud architecture.

4. **COURSE OUTCOMES:**

CO1: To demonstrate knowledge and understanding of the historical and cultural significance of mud architecture, and the advantages and limitations of using mud as a construction material.

CO2: To identify and classify different types of soils suitable for mud construction, and understand soil testing and preparation techniques to optimize the properties of mud for construction purposes.

CO3: To acquire knowledge and skills in traditional and contemporary mud construction techniques, such as adobe, cob, rammed earth, compressed earth blocks and Wattle and Daub, and develop the ability to apply these techniques in design and construction.

CO4: To explore and demonstrate an understanding of the sustainable aspects of mud architecture, including the ability to design for thermal insulation, humidity regulation, and the use of natural materials in achieving sustainable building practices.

CO5: To develop analytical skills to critically analyze and evaluate case studies of successful mud architecture projects from around the world, and identify and apply design strategies, techniques, and innovations in the field of mud architecture in their own design projects.

5. **COURSE SCHEDULE:**

Week	Date	Title / Details	Input Details & mode	Learning Outcome	CO Linking	Output Assignments
Week 1 25Dec-31Dec	26/12/2024 Tue	Introduction to Subject, Syllabus and marking system	PPT, Class Discussion	Students will be able to understand the overview of the Elective V (Mud Architecture) subject & Its importance in Architecture.		Group Discussion
Week 2 1Jan -7Jan	02/01/2024 Tue	**Unit1: Introduction to Mud Architecture-** 1. Understanding the historical and cultural significance of mud architecture.	Lecturing, Class Discussion	• Students will be able to understand the historical and cultural significance of mud architecture, including its use in various cultures throughout history and its impact on sustainable building practices. • Students will be able to discuss the importance of preserving and promoting mud architecture as a sustainable and eco-friendly building method.	CO1	**Assignment 01** Book Review of **Laurie Baker -Life,Work & Writings** by Gautam Bhatia **Section I & III** (A3 Sheet)

Week 3 8Jan - 14Jan	09/01/2024 Tue	**Unit I: Introduction to Mud Architecture-** **2.** Exploring the advantages and limitations of using mud as a construction material.	Lecturing, Class Discussion PPT, Videos (posted in group and shown in class)	• Students will be able to to analyze and evaluate the advantages and limitations of using mud as a construction material.	**CO1**	**Assignment 01** Book Review of **Laurie Baker - Life,Work & Writings** by Gautam Bhatia **Section II with detail study of 1 project** (A3 Sheet)
Week 4 15Jan - 21Jan	16/01/2024 Tue	**UNIT II : Mud as a Building Material** **1.** Study the different types of soils suitable for mud construction.	Lecturing, PPT, Class Discussion	• Students will be able to identify and differentiate between different types of soils suitable for mud construction. They will develop an understanding of the properties of various soil types, such as clay, silt, and sand, and how these properties influence the strength, durability, and workability of mud as a building material.	**CO2**	**Assignment 02** **- Read and select one research paper on Mud Architecture.** Summary of the selected research paper in 500 words (Handwritten)
Week 5 22Jan - 28Jan	23/01/2024 Tue	**UNIT II : Mud as a Building Material** **2.** Learn about soil testing and preparation techniques for optimizing the properties of mud for construction.	Lecturing, PPT	• Students will be able to understand the importance of soil testing in determining the quality and suitability of soil for mud construction.	**CO2**	**Assignment 03** **- PowerPoint Presentation_** Present the Learning from the Selected research paper. (A3 Sheet)

Week 6 29Jan - 04Feb	30/01/2024 Tue	**UNIT III : Mud Construction Techniques:** 1. Introduction to traditional and contemporary techniques for mud construction.	Lecturing, PPT Live Case Study at Hunnar Gurukul & Hands on Earth construction Workshop	• Students will be able to understand how these techniques have been used throughout history and how they are being adapted for modern construction practices.	CO3	**Assignment 04** -Detail Case Study of Hunnar Gurukul, focusing mainly on materials used and Construction Techniques used.
Week 7 05Feb- 11Feb	06/02/2024 Tue	**STUDY TOUR**				
Week 8 12Feb- 18Feb	13/02/2024 Tue	**STUDY TOUR**				
Week 9 19Feb- 25Feb	20/02/2024 Tue	**UNIT III : Mud Construction Techniques:** 2.Study in detail the techniques for mud construction, such as adobe, cob, rammed earth, compressed earth blocks and Wattle and Daub.	Lecturing, PPT	• Students will be able to Understand the various techniques used in mud construction, including adobe, cob, rammed earth, compressed earth blocks, and Wattle and Daub. • Students will be able to identify the advantages and disadvantages of each mud construction technique.	CO3	**Assignment 05** -Design a Residence for a farmer family using sustainable materials and techniques.
Week 10 26Feb- 03Mar	27/02/2024 Tue	**CULTURALS**				

Week 11 04Mar- 10Mar	05/03/2024 Tue	**UNIT IV : Sustainable Design in Mud Architecture** 1. Introduction to sustainable design in mud architecture, benefits of using mud as a building material, thermal insulation and humidity regulation in mud architecture and use of natural materials in mud architecture.	Lecturing, Class Discussion PPT, Videos (posted in group and shown in class)	• Students will be able to understand the principles and importance of sustainable design in mud architecture, and how it contributes to environmental and social well-being.	CO4	**Assignment 06** - Identify the Organizations working in mud in India (A3 Sheet)
Week 12 11Mar- 17Mar	12/03/2024 Tue	**UNIT IV : Sustainable Design in Mud Architecture** 2. Strategies for reducing environmental impact in mud architecture, case studies of successful sustainable mud architecture projects, challenges and limitations of mud architecture in sustainable design, future trends in sustainable mud architecture, hands-on practical exercises in mud construction techniques.	Lecturing, PPT	• Students will be able to understand and implement strategies for reducing the environmental impact of mud architecture, considering factors such as energy consumption, waste generation, and resource efficiency.		**Discussion on (Assignment 05)**

Week 13 18Mar-24Mar	19/03/2024 Tue	**UNIT V : Case Studies and Analysis:** 1. Analyze case studies of successful mud architecture projects from around the world.	Lecturing, PPT	• Students will be able to Analyze and evaluate case studies of successful mud architecture projects from various regions and contexts, considering factors such as climate, culture, and socio-economic conditions.	CO5	**Assignment 05** - Case studies of any three projects of Identified Organizations (Min. 3nos) (A3 Sheet)
Week 14 25Mar-31Mar	26/03/2024 Tue	**UNIT V : Case Studies and Analysis:** 2. Identify design strategies, techniques, and innovations in the field of mud architecture.	Class Discussion	• Students will be able to identify and discuss design strategies, techniques, and innovations used in the featured mud architecture projects, recognizing their impact on sustainability, functionality, and aesthetics.	CO5	**Discussion on the Case Studies (Assignment 05)**
Week 15 01Apr-07Apr	02/04/2024 Tue	Discussion and comments on all the assignments				
Week 16 08Apr-14Apr	09/04/2024 Tue	**HOLIDAY GUDIPADWA**				
Week 17 15Apr-21Apr	16/04/2024 Tue	Pre Final Submission				
Week 18 22Apr-28Apr	23/04/2024 Tue	Final Submission				

6. REFERENCE MATERIALS:

- Clay Architecture: History and Conservation, edited by José Esteban Muñoz (Routledge, 2018).
- Rammed Earth construction, by Rudolf Keiffer (WIT Press, 2006).
- Design of Adobe Structures, by John May (Wiley, 2001).
- Design and Construction of Earth Structures, by Alan Cooke (CRC Press, 2004).
- Construction with Earth: Traditional, Modern and Experimental Techniques, edited by James Dudley (Earth Aware, 2008).
- Earth, Straw and Wood Building, by Christopher Day (Blueprint, 1989).
- Historic Preservation of Adobe Buildings: Guidelines for Exterior Maintenance, by J. Mark Schuster (US Department of the Interior, 2008).
- Sustainable Mud Buildings: Design, Maintenance and Safety, by Katarzyna Jóźwiak (Springer, 2015).
- Earth Architecture, by Kukka-Maria Ahonen (Conran Octopus, 2017).
- Eco-Friendly Building with Adobe: A Design and Construction Handbook, by adobe resident Craig S. shank (Skyhorse, 2010).

7. DETAILED EVALUATION CRITERIA:

Assign No.	Description	Evaluation criteria	CO Linking	Marks
UNIT I - Introduction to Mud Architecture - 30 Marks				
Assign no-1	**Book Review of Laurie Baker - Life,Work & Writings by Gautam Bhatia** 1. Summary of **Section I** (Baker's contribution to Architecture, Buildings and Practice, A creative contribution in 500 words); 2. **Section II** (Any one work with Introduction, detail case study with Plan, Elevation & Section) 3. **Section III** (Baker's writings on Architecture in 500 words)	Appropriate Content (40%), Depth of knowledge(25%),Analysis & interpretation (25%) and presentation(10%)	CO1	30
UNIT II - Mud as a Building Material - 20 Marks				
Assign no-2	**Research Paper Summary_** in 500 words (Handwritten)	Appropriate Content (40%), Depth of knowledge(25%),Analysis & interpretation (25%) and presentation(10%)	CO2	10
Assign no-3	**PowerPoint Presentation_**Present the Learning from the Selected research paper	Content & Accuracy (40%), Depth of knowledge(25%) & Use of examples (25%), Visual Design & Presentation Skills (10%)		10
UNIT III - Mud Construction Techniques - 25 Marks				
Assign no-4	**Detail Case Study** of Hunnar Gurukul, focusing mainly on materials used and Construction Techniques used.	Content (80%)Analysis & interpretation (20%)		10

Assign no-5	Design a Residence for a farmer family using sustainable materials and techniques.	Accuracy(50%),Depth of knowledge(25%)&Use of material and technology (15%) Presentation Skills (10%)	CO3	15
UNIT IV - Sustainable Design in Mud Architecture - 10 Marks				
Assign no-6	**Identify the Organizations working in mud in India_** List down the projects done by that Organization; Specialization and style they follow,Techniques/Philosophies they use	Appropriate Content (60%) and presentation(40%)	CO4	10
UNIT V - Environment Legislation and Social aspects of environment - 30 Marks				
Assign no-12	**Case studies of any three projects of Identified Organizations** Detail min. 3 case studies with Plan, Elevation & Section of any projects from the selected Organization highlighting the details of Construction Techniques, material & Comparative analysis of the case studies	Accuracy(50%), Depth of knowledge(25%) and Analysis & interpretation (25%)	CO5	30
Cumulative attendance				10
Total Internal Marks				125
Total Internal Marks as per University (Convert 125 into 25)				25

Ar. Prerna Thakare
Subject Coordinator

Ar. Priyanka Barge
Academic Coordinator
Academic Coord. ...of VPSOA, Baramati

Ar. Seemantini Chaphalkar
Academic Head
VPSOA, Baramati

Ar. Rajshree Patil
I/C Principal
I/C PRINCIPAL
Vidya Pratishthan's
SCHOOL OF ARCHITECTURE, BARAMATI
Vidyanagari,Baramati Dist.Pune 4131

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VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Vidya Pratishthan's School of Architecture, Baramati

Academic Year 2023 - 2024   Sem- VIII   Month- January.

Faculty In-Charge:- Ar. Prerna Thakare   Subject:- Elective V (Mud Architecture)

4

	Student Details			Monthly Attendance											
	No.	Roll No.	Name of Student	02/01		16/01		23/01		30/01	Submission		Total	%	Remark
	1	23401	ATTAR HIDA INTIKHABALAM												
✓	2	23402	CHAVAN TANUJA MAHADEV	P	Thavan	P	Thavan	P	Thavan	P	Thavan				
✓	3	23403	CHOUDHAR SHWETA NANA	P	[illegible]	P	[illegible]	P	[illegible]	P	[illegible]				
✓	4	23404	DEOKAR TUSHAR TANAJI	P	[illegible]	P	Tushar	P	Tushar	AB	— Not S —				
✓	5	23405	DESHMUKH ADITI MADHAVRAO	P	Aditi	AB	—	P	Aditi	AB	— Not S —				
	6	23406	DOIPHODE SHREYA SUBHASH												
✓	7	23407	DORAGE MAYURI SUNIL	P	MSD	AB	—	P	MSD	P	MSD				
✓	8	23408	GADILKAR SAMRUDDHI DEEPAK	P	[illegible]	P	[illegible]	P	[illegible]	P	[illegible]				
	9	23409	GAIKWAD NIKITA SHASHIKANT												
	10	23410	GAIKWAD RADHA AJAYSINH												
YD	11	23411	GAWADE SHRIRAJ YASHWANT	~~P~~		~~AB~~									
	12	23412	GIRAME SAYALI SURESH												
✓	13	23413	GOLANDE ADITYA VILAS	P	आदित्य	P	आदित्य	P	आदित्य	P	आदित्य				
	14	23414	HANDE SAKSHI GORAKSHANATH	P	Hande	P	Hande	P	Hande	P	Hande				
	15	23415	HEGADE PRATHMESH MAHADEV	P	PMH	P	PMH	AB	—	AB	— Not S —				
	16	23416	HINGE OMKAR VASANT	P	[illegible]	P	[illegible]	AB	—	AB	— Not S —				
	17	23417	HUMBE SANJAY CHATURBHUJ												
	18	23418	INGALE SAKSHI VISHNU	P	[illegible]	AB	—	P	[illegible]	AB	— Not S —				
✓	19	23419	INGAWALE ASHLESHA BHARAT	P	[illegible]	P	[illegible]	P	[illegible]	P	[illegible]				
	20	23421	JAMKAR TEJASWINI BHASKAR												
	21	23422	KALE VIKRANT BHARAT	P	Kale	AB	—	P	Kale	AB	— Not S —				
	22	23423	KATTE SANKET MURLIDHAR												
	23	23424	KHARADE SNEHAL SHAHAJI												
	24	23425	KULKARNI RUGVED MANOJ												
✓	25	23426	KUTWAL NIKITA PANDURANG	P	[illegible]	P	[illegible]	P	[illegible]	AB	— Not S —				
	26	23427	LAKADE SHREYASH MOHAN	P	Shrey	P	Shrey	AB	—	AB	— Not S —				
	27	23428	MALI SANSKAR VAIJANATH	P	Sanskar	AB	—	P	Sanskar	AB	— Not S —				
	28	23429	MULLA AMAN AKBAR												
✓	29	23430	NALAWADE ANKITA RAMESH	P	[illegible]	AB	—	P	[illegible]	P	[illegible]				
	30	23431	NEVASE AAKANKSHA SANTOSH	P	Nevase	P	Nevase	AB	—	P	Nevase				
	31	23432	PARKALE PRERNA PRADIPKUMAR												
	32	23433	PATIL SAKSHI DHANANJAY	P	Sakshi	P	Sakshi	P	Sakshi	AB	— Not S —				
	33	23434	PATIL VAISHNAVI MANOJ												
	34	23435	PAWAR ARYA MAHENDRA												
	35	23436	PAWAR TEJAL SHRIKANT												
	36	23437	RAMANE NIKITA SATISH												
YD	37	23438	RANDHWAN SAYALI LAXMAN	P	[illegible]	AB	—	—	—	AB	— Not S —				
	38	23439	RUPNAWAR SAMIR HANUMANTRAO												
	39	23440	SANGHAVI MITALI MILIND												
	40	23441	SATPUTE PRAJAKTA CHANDRAKANT												
	41	23442	SHINDE SUYASH NILKANTH												
✓	42	23443	TAWARE ANIKET DATTATRAYA	P	Kawn	P	Kawn	P	Kawn	AB	— Not S —				
	43	23444	UBALE SAYALI GOKUL												
✓	44	23445	WATTAMWAR NIRMITI NILESH	P	NW	P	NW	P	NW	AB	— Not S —				
✓	45	23446	WETAL RAJLAXMI RAJU	P	R.Veky	P	R.Veky	P	R.Veky	P					
	46	23447	KULKARNI AVANTI DIPAK	P	[illegible]	P	[illegible]	AB	—	AB	— Not S —				
	47	23448	TAWARE PRAGATI ARVIND												
	48	23449	THITE ABHIJIT ROHIT												

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Vidya Pratishthan's School of Architecture, Baramati

Academic Year 2023 - 2024 Sem- VIII Month- February 2024

Faculty In-Charge:- Ar. Prerna Thakare. Subject:- Elective V (Mud A.)

4

No.	Roll No.	Name of Student	27/02		06/02	13/02	29/02	Total	%	Remark
1	23401	ATTAR HIDA INTIKHABALAM								
2	23402	CHAVAN TANUJA MAHADEV	AB	—						
3	23403	CHOUDHAR SHWETA NANA	AB	—						
4	23404	DEOKAR TUSHAR TANAJI	P							
5	23405	DESHMUKH ADITI MADHAVRAO	P	Aditi						
6	23406	DOIPHODE SHREYA SUBHASH								
7	23407	DORAGE MAYURI SUNIL	P	MSD						
8	23408	GADILKAR SAMRUDDHI DEEPAK	P	[illegible]						
9	23409	GAIKWAD NIKITA SHASHIKANT								
10	23410	GAIKWAD RADHA AJAYSINH								
11	23411	GAWADE SHRIRAJ YASHWANT								
12	23412	GIRAME SAYALI SURESH								
13	23413	GOLANDE ADITYA VILAS	P	आदित्य						
14	23414	HANDE SAKSHI GORAKSHANATH	AB	—						
15	23415	HEGADE PRATHMESH MAHADEV	AB	—						
16	23416	HINGE OMKAR VASANT	AB	—						
17	23417	HUMBE SANJAY CHATURBHUJ								
18	23418	INGALE SAKSHI VISHNU	AB	—						
19	23419	INGAWALE ASHLESHA BHARAT	AB	—						
20	23421	JAMKAR TEJASWINI BHASKAR			Study Tour.	Study Tour.	Cultural.			
21	23422	KALE VIKRANT BHARAT	P	Kale						
22	23423	KATTE SANKET MURLIDHAR								
23	23424	KHARADE SNEHAL SHAHAJI								
24	23425	KULKARNI RUGVED MANOJ								
25	23426	KUTWAL NIKITA PANDURANG	AB	—						
26	23427	LAKADE SHREYASH MOHAN	AB	—						
27	23428	MALI SANSKAR VAIJANATH	P	[illegible]						
28	23429	MULLA AMAN AKBAR								
29	23430	NALAWADE ANKITA RAMESH	P	ARN						
30	23431	NEVASE AAKANKSHA SANTOSH	P							
31	23432	PARKALE PRERNA PRADIPKUMAR								
32	23433	PATIL SAKSHI DHANANJAY	P	Sakshi						
33	23434	PATIL VAISHNAVI MANOJ								
34	23435	PAWAR ARYA MAHENDRA								
35	23436	PAWAR TEJAL SHRIKANT								
36	23437	RAMANE NIKITA SATISH								
37	23438	RANDHWAN SAYALI LAXMAN								
38	23439	RUPNAWAR SAMIR HANUMANTRAO								
39	23440	SANGHAVI MITALI MILIND								
40	23441	SATPUTE PRAJAKTA CHANDRAKANT								
41	23442	SHINDE SUYASH NILKANTH								
42	23443	TAWARE ANIKET DATTATRAYA	AB	—						
43	23444	UBALE SAYALI GOKUL								
44	23445	WATTAMWAR NIRMITI NILESH	P	NW						
45	23446	WETAL RAJLAXMI RAJU	P							
46	23447	KULKARNI AVANTI DIPAK	P							
47	23448	TAWARE PRAGATI ARVIND								
48	23449	THITE ABHIJIT ROHIT								

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Vidya Pratishthan's School of Architecture, Baramati

Academic Year 2023 - 2024 Sem- VIII Month- March.

Faculty In-Charge:- Ar. Prerna Thakare. Subject:- Elective V (Mud A.)

4

Student Details			Monthly Attendance												Remark
No.	Roll No.	Name of Student	05/03		12/03	19/03		26/03		30/03		Total	%		Remark
1	23401	ATTAR HIDA INTIKHABALAM													
2	23402	CHAVAN TANUJA MAHADEV	P	[signature]		P	[signature]			P					
3	23403	CHOUDHAR SHWETA NANA	P	[signature]		P	[signature]			P					
4	23404	DEOKAR TUSHAR TANAJI	AB	—	P	AB	[signature]			AB	—				
5	23405	DESHMUKH ADITI MADHAVRAO	AB	—		AB	—			AB	—				
6	23406	DOIPHODE SHREYA SUBHASH													
7	23407	DORAGE MAYURI SUNIL	AB	—		P	MSD			P					
8	23408	GADILKAR SAMRUDDHI DEEPAK	P	[signature]		AB	—			P					
9	23409	GAIKWAD NIKITA SHASHIKANT													
10	23410	GAIKWAD RADHA AJAYSINH													
11	23411	GAWADE SHRIRAJ YASHWANT													
12	23412	GIRAME SAYALI SURESH													
13	23413	GOLANDE ADITYA VILAS	P	[signature]		P	[signature]			P					
14	23414	HANDE SAKSHI GORAKSHANATH	P	[signature]		P	[signature]			P					
15	23415	HEGADE PRATHMESH MAHADEV	AB	—		AB	—			AB	—				
16	23416	HINGE OMKAR VASANT	AB	—		P	[signature]			P					
17	23417	HUMBE SANJAY CHATURBHUJ						Design Jury							
18	23418	INGALE SAKSHI VISHNU	AB	—		AB	—			P					
19	23419	INGAWALE ASHLESHA BHARAT	AB	—		P	[signature]			P					
20	23421	JAMKAR TEJASWINI BHASKAR			Acted CS										
21	23422	KALE VIKRANT BHARAT	P	[signature]		P	[signature]			P					
22	23423	KATTE SANKET MURLIDHAR													
23	23424	KHARADE SNEHAL SHAHAJI													
24	23425	KULKARNI RUGVED MANOJ													
25	23426	KUTWAL NIKITA PANDURANG	P	[signature]		P	[signature]			P					
26	23427	LAKADE SHREYASH MOHAN	AB	—		P	[signature]			AB					
27	23428	MALI SANSKAR VAIJANATH	AB	—		AB	—			AB					
28	23429	MULLA AMAN AKBAR													
29	23430	NALAWADE ANKITA RAMESH	P	[signature]		P	[signature]			P					
30	23431	NEVASE AAKANKSHA SANTOSH	P	[signature]		P	[signature]			P					
31	23432	PARKALE PRERNA PRADIPKUMAR													
32	23433	PATIL SAKSHI DHANANJAY	AB	—		P	[signature]			P					
33	23434	PATIL VAISHNAVI MANOJ													
34	23435	PAWAR ARYA MAHENDRA													
35	23436	PAWAR TEJAL SHRIKANT													
36	23437	RAMANE NIKITA SATISH													
37	23438	RANDHWAN SAYALI LAXMAN	AB	—		P	[signature]			AB	—				
38	23439	RUPNAWAR SAMIR HANUMANTRAO													
39	23440	SANGHAVI MITALI MILIND													
40	23441	SATPUTE PRAJAKTA CHANDRAKANT													
41	23442	SHINDE SUYASH NILKANTH													
42	23443	TAWARE ANIKET DATTATRAYA	AB	—		AB	—			P					
43	23444	UBALE SAYALI GOKUL													
44	23445	WATTAMWAR NIRMITI NILESH	AB	—		P	[signature]			AB	—				
45	23446	WETAL RAJLAXMI RAJU	AB	—		AB	—			P					
46	23447	KULKARNI AVANTI DIPAK	AB	—		AB	—			AB	—				
47	23448	TAWARE PRAGATI ARVIND													
48	23449	THITE ABHIJIT ROHIT													

Vidya Pratishthan's School of Architecture, Baramati

Academic Year 2023 - 2024 Sem- VIII Month- April

Faculty In-Charge:- Ar. Prerna Thakare. Subject:- Elective V (Mud. Architecture)

4

Student Details			Monthly Attendance											Remark
No.	Roll No.	Name of Student	2/04		9/04	16/04		23/04		30/04		Total	%	
1	23401	ATTAR HIDA INTIKHABALAM												
2	23402	CHAVAN TANUJA MAHADEV	P			AB	—	P						
3	23403	CHOUDHAR SHWETA NANA	P			AB	—	P						
4	23404	DEOKAR TUSHAR TANAJI	P			AB	—	P						
5	23405	DESHMUKH ADITI MADHAVRAO	AB	—		P	Adin	P						
6	23406	DOIPHODE SHREYA SUBHASH												
7	23407	DORAGE MAYURI SUNIL	P	MSD		P	MSD	P						
8	23408	GADILKAR SAMRUDDHI DEEPAK	P	[illegible]		P	[illegible]	P						
9	23409	GAIKWAD NIKITA SHASHIKANT												
10	23410	GAIKWAD RADHA AJAYSINH												
11	23411	GAWADE SHRIRAJ YASHWANT												
12	23412	GIRAME SAYALI SURESH												
13	23413	GOLANDE ADITYA VILAS	P	आदित्य		P	आदित्य	P						
14	23414	HANDE SAKSHI GORAKSHANATH	P	Hande		AB P	Hande	P						
15	23415	HEGADE PRATHMESH MAHADEV	AB	—		AB	—	P						
16	23416	HINGE OMKAR VASANT	AB	—		P		P						
17	23417	HUMBE SANJAY CHATURBHUJ												
18	23418	INGALE SAKSHI VISHNU	P	[illegible]		AB P	[illegible]	P						
19	23419	INGAWALE ASHLESHA BHARAT	P	Ajul		P	Ajul	P						
20	23421	JAMKAR TEJASWINI BHASKAR			Gudi Padwa Holiday									
21	23422	KALE VIKRANT BHARAT	P	Kale		P	Kale	P						
22	23423	KATTE SANKET MURLIDHAR												
23	23424	KHARADE SNEHAL SHAHAJI												
24	23425	KULKARNI RUGVED MANOJ												
25	23426	KUTWAL NIKITA PANDURANG	P			P	Ned	P						
26	23427	LAKADE SHREYASH MOHAN	AB	—		AB	—	P						
27	23428	MALI SANSKAR VAIJANATH	AB	—		P	[illegible]	P						
28	23429	MULLA AMAN AKBAR												
29	23430	NALAWADE ANKITA RAMESH	P	ARN		P	ARN	P						
30	23431	NEVASE AAKANKSHA SANTOSH	P	Nevase		AB	Nevase	P						
31	23432	PARKALE PRERNA PRADIPKUMAR												
32	23433	PATIL SAKSHI DHANANJAY	P			AB	—	P						
33	23434	PATIL VAISHNAVI MANOJ												
34	23435	PAWAR ARYA MAHENDRA												
35	23436	PAWAR TEJAL SHRIKANT												
36	23437	RAMANE NIKITA SATISH												
37	23438	RANDHWAN SAYALI LAXMAN	AB	—		AB	—	P						
38	23439	RUPNAWAR SAMIR HANUMANTRAO												
39	23440	SANGHAVI MITALI MILIND												
40	23441	SATPUTE PRAJAKTA CHANDRAKANT												
41	23442	SHINDE SUYASH NILKANTH												
42	23443	TAWARE ANIKET DATTATRAYA	P			AB		P						
43	23444	UBALE SAYALI GOKUL												
44	23445	WATTAMWAR NIRMITI NILESH	P	NIW		P	NIW	P						
45	23446	WETAL RAJLAXMI RAJU	P			AB	—	P						
46	23447	KULKARNI AVANTI DIPAK	AB	—		AB	—	P						
47	23448	TAWARE PRAGATI ARVIND												
48	23449	THITE ABHIJIT ROHIT												

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Vidya Pratishthan's School of Architecture, Baramati

Academic Year 2023 - 2024 Sem - VIII Term II

Faculty In-Charge:- Ar. Prerna Thakare Subject:- Elective V (Mud Architecture)

Student Details			Marking													4
No.	Roll No.	Name of Student	A1 (SECTION 1) Writings	A1 (SECTION 2) Case Study	A1 (SECTION 3) Writings	A2 Research Paper summary	A3 PPT	A4 Organizations	A5(CASE STUDY 1)	A5(CASE STUDY 2)	A5(CASE STUDY 3)	A6 Live Case Study	A7 Design a Residence	Attendance	Marks	Sessional Internal
Course Outcomes			(CO1)	(CO1)	(CO1)	(CO2)	(CO2)	(CO4)	(CO5)	(CO5)	(CO5)	(CO3)	(CO3)			
			10	10	10	10	10	10	10	10	10	10	15	10	125	25
1	23402	CHAVAN TANUJA MAHADEV	7	7.5	7	8	7	7	7	8	8	7	10.5	9	92.824	19
2	23403	CHOUDHAR SHWETA NANA	7	7	7	7	7	7	7	7	6	7	10	9	87.824	18
3	23404	DEOKAR TUSHAR TANAJI	6.5	7	6.5	7	7	7.5	7	7	7	8	9.5	8	87.647	18
4	23405	DESHMUKH ADITI MADHAVRAO	6	7	7	6	7.5	7	7	7	7	7	9	6	83.382	17
5	23407	DORAGE MAYURI SUNIL	8	8	8	9	8.5	9	9	9	9	9	13	9	108.912	22
6	23408	GADILKAR SAMRUDDHI DEEPAK	7	7.5	7	8.5	8.5	9	7.5	7.5	7.5	7	10	9	96.412	19
7	23413	GOLANDE ADITYA VILAS	8.5	9	9	9	9	9	8.5	9	9	9	14	10	113	23
8	23414	HANDE SAKSHI GORAKSHANATH	6.5	7.5	7	8	8.5	8.5	8	8	8	7	11.5	9	97.912	20
9	23415	HEGADE PRATHMESH MAHADEV	6	6	6	7	8	8.5	7	7	7	7	9	5	83.794	17
10	23416	HINGE OMKAR VASANT	7	6.5	7	7	7	8	7	7	7	7	10	7	87.559	18
11	23418	INGALE SAKSHI VISHNU	6	6	6	6.5	7	8	7	7	7	6	9	8	83.147	17
12	23419	INGAWALE ASHLESHA BHARAT	7	7.5	7	8	7	7	7.5	7.5	7.5	7	11	9	92.824	19
13	23422	KALE VIKRANT BHARAT	6	7	7	7	7	7	7	7	7	7	10	9	87.824	18
14	23426	KUTWAL NIKITA PANDURANG	8.5	8.5	8.5	8.5	9	9	8.5	8.5	8.5	9.5	14	9	109.824	22
15	23427	LAKADE SHREYASH MOHAN	6	7	6	7	7	7.5	7	7	7	8	9	6	84.382	17
16	23428	MALI SANSKAR VAIJANATH	6.5	7	6.5	7.5	7	7.5	7	7.5	7	8	10	6	87.971	18
17	23430	NALAWADE ANKITA RAMESH	8	8.5	7	8	9	8.5	9	9	9	7	10.5	9	102.912	21
18	23431	NEVASE AAKANKSHA SANTOSH	7	7.5	7	8.5	8.5	9	7	7	7	7	9.5	9	94.412	19
19	23433	PATIL SAKSHI DHANANJAY	7	8	7	7	7	7	7	7	7	7	9	8	88.235	18
20	23443	TAWARE ANIKET DATTATRAYA	7	7.5	7	8	7	7	8	7	8	8	11	7	92.559	19
21	23445	WATTAMWAR NIRMITI NILESH	8.5	8.5	8.5	8.5	9	9	8.5	8.5	8.5	9.5	14	8	109.235	22
22	23446	WETAL RAJLAXMI RAJU	8	8.5	7	7.5	9	8.5	9	9	9	7	9.5	8	100.235	20
23	23447	KULKARNI AVANTI DIPAK	0	0	0	0	0	0	0	0	0	0	0	5	4.706	5

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Vidya Pratishthan's School of Architecture, Baramati.

Term End Report

Subject: Elective V (Mud Architecture)	Faculty: Ar. Prerna Thakare	
Class: Second Year B. Arch	Year: 2023-24	Term: II Semester: VIII Pattern: 2019
Course Code	4201964 (SS)	

DETAIL OF UNITS:

Sr. No	Units	Complete/ In progress	Detail of Assignment/unit covered
1	**UNIT I : Introduction to Mud Architecture** Understanding the historical and cultural significance of mud architecture. Exploring the advantages and limitations of using mud as a construction material.	Complete	1. Understanding the Historical and Cultural Significance of Mud Architecture: 1. Exploration of historical mud structures and their cultural significance in various regions. 2. Analysis of how mud architecture reflects local traditions, lifestyles, and environmental conditions. 3. Exploring the Advantages and Limitations of Using Mud as a Construction Material: 4. Investigation into the unique properties of mud as a building material, including its thermal properties, sustainability, and availability. 5. Discussion on the limitations and challenges associated with mud construction, such as susceptibility to water damage and structural stability.
2	**UNIT II : Mud as a Building Material** Study the different types of soils suitable for mud construction. Learn about soil testing and preparation techniques for optimizing the properties of mud for construction.	Complete	1. Study of Different Types of Soils Suitable for Mud Construction: 2. Identification and classification of soils based on their suitability for mud construction, considering factors such as clay content, particle size distribution, and plasticity. 3. Overview of soil characteristics and their impact on the properties of mud, including strength, shrinkage, and durability. 4. Soil Testing and Preparation Techniques for Optimizing Mud Properties: 5. Introduction to soil testing methods, including sieve analysis, Atterberg limits, and soil compaction tests.

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			6. Techniques for soil preparation, such as sieving, mixing with stabilizers, and moisture adjustment, to optimize mud properties for construction.
3	**UNIT III : Mud Construction Techniques:** Discover traditional and contemporary techniques for mud construction, such as adobe, cob, rammed earth, compressed earth blocks and Wattle and Daub.	Complete	1. Traditional and Contemporary Techniques for Mud Construction: 2. Overview of traditional mud construction techniques, including adobe, cob, rammed earth, and wattle and daub. 3. Exploration of contemporary methods such as compressed earth blocks (CEB) and stabilized earth construction. 4. Hands on Earth Construction Workshop
4	**UNIT IV : Sustainable Design in Mud Architecture** Explore the sustainable aspects of mud architecture, such as thermal insulation, humidity regulation, and the use of natural materials.	Complete	1. Exploration of Sustainable Aspects of Mud Architecture: 2. Examination of the sustainable benefit of mud architecture, including thermal insulation, humidity regulation, and the use of natural, renewable materials. 3. Discussion on strategies for enhancing energy efficiency, indoor air quality, and environmental sustainability in mud buildings.
5	**UNIT V : Case Studies and Analysis:** Analyze case studies of successful mud architecture projects from around the world. Identify design strategies, techniques, and innovations in the field of mud architecture.	Complete	1. Analysis of Successful Mud Architecture Projects: 2. Review of case studies from around the world showcasing exemplary mud architecture projects. 3. Identification and analysis of design strategies, construction techniques, and innovations used in these projects.

SUMMARY

1. Introduction :

The term end report aims to provide a comprehensive overview of the Elective V (Mud Architecture) subject, covering various important units. Below is a summary of each unit covered:

- In **Unit I**, In this unit, students delve into the rich history and cultural significance of mud architecture, unraveling its profound impact on societies across the globe. Through an examination of its advantages and limitations, students gain insight into the unique properties of mud as a construction material.
- **Unit II** delves deeper into soil science, as students explore the various types of soils conducive to mud construction. Through hands-on learning experiences and theoretical insights, students

learn about soil testing and preparation techniques to optimize mud properties for construction purposes.

- Moving on to **Unit III**, Traditional and contemporary techniques for mud construction take center stage in this unit. From adobe and cob to rammed earth and compressed earth blocks, students embark on a journey through time, uncovering the diverse array of methods employed in mud construction.
- Sustainability lies at the heart of this **Unit IV**, as students explore the ecological advantages of mud architecture. From thermal insulation to humidity regulation, students examine the sustainable aspects of mud architecture and its alignment with natural materials and principles.
- Finally, in **Unit V**, In the final unit, students engage in a comprehensive analysis of successful mud architecture projects from around the world. Through in-depth case studies, students identify design strategies, techniques, and innovations that have shaped the field of mud architecture, inspiring future generations of environmental stewards and designers.

2. Insights:

Elective V (Mud Architecture) subject illuminates the profound understanding and skill development achieved by students throughout the semester. Through a blend of assignments, presentations, case studies, and readings, students have embarked on a transformative journey, gaining insights that extend beyond the confines of traditional classroom learning.

- **Comprehensive Understanding of Key Concepts:** Students have demonstrated a deep understanding of the fundamental concepts underpinning mud architecture. From the historical and cultural significance of mud as a building material to its practical applications in contemporary design, students have engaged with the subject matter in a holistic manner, enriching their architectural knowledge base.

- **Practical Application of Learning:** The integration of assignments, presentations, and case studies has provided students with opportunities to apply theoretical knowledge to real-world scenarios. Through hands-on exercises and design projects, students have honed their practical skills, translating theoretical concepts into tangible architectural solutions.

- **Exploration of Diverse Perspectives:** The subject has encouraged students to explore diverse perspectives within the realm of mud architecture. Through readings and discussions, students have been exposed to a range of historical, cultural, and environmental contexts, fostering a nuanced understanding of the subject and its broader implications.

- **Critical Thinking and Analysis:** Assignments and case studies have prompted students to engage in critical thinking and analysis, encouraging them to evaluate complex architectural problems from multiple angles. Through rigorous analysis and synthesis of information, students have developed the ability to formulate informed design decisions and solutions.

- **Collaborative Learning:** The collaborative nature of the subject has facilitated peer-to-peer learning and knowledge exchange. Through group presentations and collaborative projects, students have leveraged collective expertise to tackle challenging design problems, fostering a spirit of collaboration and teamwork.

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- **Integration of Sustainable Practices:** A key highlight of the subject has been the emphasis on sustainable design principles within the context of mud architecture. Through case studies and discussions on sustainable building materials, students have gained an appreciation for environmentally conscious design practices, preparing them to address pressing sustainability challenges in their future careers.

Overall, the term-end report reflects the remarkable growth and achievement of students in Elective V (Mud Architecture). By immersing themselves in the subject matter and actively engaging with course materials, students have not only expanded their architectural skill set but have also cultivated a deep appreciation for the rich heritage and sustainable potential of mud architecture.

3. Methodology Applied

The Elective V (Mud Architecture) subject employed a multifaceted approach to facilitate comprehensive learning and engagement among students. The methodology applied included:

- **Lecture Sessions:** Traditional lecture sessions were conducted to provide students with foundational knowledge on key Elective V (Mud Architecture) concepts, theories, and principles. These sessions were meticulously structured to impart foundational knowledge on key concepts, theories, and principles relevant to mud architecture. Through engaging lectures, students were introduced to various topics, including the historical and cultural significance of mud architecture, different construction techniques, and sustainable design practices.
- **Literature Review and Class Instruction:** The comprehensive literature review was conducted to gather knowledge on the fundamental concepts of environmental studies, including the Natural Resources, Concept of Mud Architecture and construction techniques. This literature review formed the basis for class lectures and discussions to elaborate on these concepts and facilitated student engagement and participation.
- **Interactive Discussions:** Interactive discussions played a pivotal role in the methodology applied for Elective V (Mud Architecture). These sessions provided students with opportunities to engage in dialogue, exchange ideas, and debate various aspects of mud architecture. Through facilitated discussions, students were able to deepen their understanding of complex topics, challenge assumptions, and explore alternative perspectives. Interactive discussions also serv as a platform for collaborative learning, enabling students to learn from their peers and collectively broaden their knowledge base.
- **Assignments and Cornell Notes:** Assignments and Cornell Notes were integral components of the methodology, designed to enhance student learning and retention. Assignments were carefully crafted to reinforce key concepts covered in lectures and readings, requiring students to apply their knowledge in practical scenarios. Cornell Notes, a structured note-taking method, provided students with a systematic approach to organizing and synthesizing information from lectures and readings. By actively engaging with assignments and Cornell Notes, students were able to reinforce their understanding of course material and develop critical thinking skills.
- **Online Learning Resources:** Supplementary online learning resources, including readings, videos, and multimedia materials, were made available to students to support their independent

study and research. These resources complemented classroom instruction and provided additional avenues for exploration and learning.

- **Presentations:** Presentations were assigned to students to encourage independent research, analysis, and synthesis. These tasks provided students with opportunities to delve deeper into specific topics, develop critical thinking skills, and communicate their findings effectively.
- **Hands-on Earth Construction Workshop:** An immersive hands-on earth construction workshop provided students with practical experience in applying theoretical knowledge to real-world scenarios. This workshop allowed students to gain firsthand experience in mud construction techniques, such as adobe, cob, rammed earth, and compressed earth blocks. Through hands-on activities and demonstrations, students developed practical skills and gained insights into the challenges and opportunities associated with mud architecture. This experiential learning opportunity complemented traditional classroom instruction, providing students with a well-rounded understanding of mud architecture principles and practices.

Overall, the methodology applied for Elective V (Mud Architecture) encompassed a multifaceted approach, combining traditional lectures, literature review, interactive discussions, assignments, Cornell Notes, and hands-on workshops to provide students with a comprehensive learning experience. By integrating theoretical knowledge with practical application, this methodology fostered student engagement, critical thinking, and skill development, preparing students for success in the field of mud architecture.

4. Experiments Done:

Several experiments were conducted to enhance the learning experience in the Elective V (Mud Architecture) subject. Here are some experiments that were implemented:

- **Introduction of Cornell Notes:** Cornell notes were introduced as a note-taking method during lectures. This allowed students to actively engage in note-taking, organizing information into main points, supporting details, and summaries. Cornell notes promoted knowledge retention and effective review of the material covered during lectures.

- **The Hands-on Earth Construction** Workshop served as a pivotal experiential learning opportunity within the course curriculum. During this workshop, students actively engaged in practical exercises aimed at applying theoretical knowledge to real-world scenarios in the field of mud architecture. The following experiments were conducted as part of the workshop:

  a) Adobe Construction:
  Students participated in hands-on activities focused on adobe construction techniques. They learned how to prepare adobe bricks using locally sourced materials and traditional methods. Through practical demonstrations, students gained insights into the process of shaping, drying, and stacking adobe bricks to create sturdy walls.

  b) Cob Construction:
  Cob construction techniques were explored through interactive exercises where students learned to mix mud, straw, and other additives to create cob material. They experimented with different proportions and mixing methods to achieve the desired consistency and

workability of the cob mixture. Students also practiced cob sculpting techniques, shaping the material into walls, benches, or other architectural elements.

c) Rammed Earth:
The workshop included demonstrations and hands-on practice sessions in rammed earth construction. Students learned how to compact layers of moistened earth within formwork to create solid rammed earth walls. They gained practical experience in the proper compaction techniques and learned about the factors influencing the strength and durability of rammed earth structures.

d) Compressed Earth Blocks (CEB):
Students were introduced to the process of producing compressed earth blocks using a manual or mechanical press. They learned about the selection of appropriate soil types, moisture content, and stabilizers for creating durable and stable CEBs. Through hands-on activities, students produced and tested compressed earth blocks, gaining insights into the manufacturing process and material properties.

Overall, the Hands-on Earth Construction Workshop provided students with valuable practic experience in various mud construction techniques, including adobe, cob, rammed earth, and compressed earth blocks. Through active participation and experimentation, students developed practical skills, enhanced their understanding of mud architecture principles, and gained insights into the challenges and opportunities associated with sustainable construction practices.

5. Conclusion:

The comprehensive overview of the Elective V (Mud Architecture) subject, covering various important units including the Introduction to Mud Architecture, Mud as a Building Material, Mud Construction Techniques, Sustainable Design in Mud Architecture, and Case Studies and Analysis. Through a blend of lectures, literature review, interactive discussions, assignments, Cornell Notes, and a hands-on Earth Construction Workshop, students have gained a deep understanding of key concepts and practical skills in mud architecture. The experiential learning opportunities provided have enriched student's learning experiences, fostering critical thinking, collaboration, and practical application of knowledge. Moving forward, the integration of sustainable practices and collaboration with external stakeholders wi'' continue to enhance the curriculum and prepare students for addressing environmental challenges . their future careers.

Thavare
16/05/24

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Criteria 1 – Curricular Aspects

Key Indicator- 1.2 Academic Flexibility

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

3. **Course structure/Syllabus**

Vidyanagari, Bhigwan Road, Baramati, Dist- Pune (Maharashtra) - 413 133, India.
Phone- 02112 239540, 239545 Fax- 02112 239159
E-mail- principal.vpsoa@vidyapratishthan.com Web- www.vpsoa.org

- One long duration site planning and landscape design project preferably the third year architectural design project. The outcome shall be landscape design drawings, concept generation, site studies, analysis along with constructional details and planting concepts.

REFERENCE BOOKS

Mcharg, I,*Design with Nature.*John Wiley and co. 1978.
Jellicoe, G and Jellicoe, S, *The Lasndscpae of Man*, London: Thames and Hudson, 1991.
Simonds, J .O, *Landscape Architecture: The Shaping of Man's Natural Environment*, N Y: McGraw Hill Book Co.Inc. 1961.
Lynch, K, *Site Planning*, Cambridge: The MIT Press, 1962.
Shaheer, M, Wahi Dua, G and Pal A (editors), *Landscape Architecture In India, A Reader:* LA, Journal of Landscape Architecture, 2013.
Lyall, S, *Designing The New Landscape*: UK:Thames and Hudson, 1998.
Dee, C, Form And Fabric In Landscape Architecture: A Visual Introduction, UK: Spon Press, 2001.
Eckbo, G, *Urban Landscape Design*, N Y: McGraw hill co. 1961.
Laurie, M, *An Introduction to Landscape Architecture*, N Y: American Elsevier Pub. Co. Inc. 1975
Rutledge, A J. *A Visual Approach to Park Design*. New York: John Wiley and Sons, 1985.
Randhawa, M S, *Flowering Trees*, New Delhi: National Book Trust, 1998.
Bose, T K and Choudhary, K, *Tropical Garden Plants in Colour*, Horticulture and Allied Publishers, 1991.
Krishen, P. *Trees of Delhi: A Field Guide*, Penguin India, 2006.
Mukherjee, P, *Trees of India (WWF Natures Guide)*, Oxford, 2008.
Sahni, K C,*The Book of Indian Trees (Bombay Natural History Society)*, Oxford, 1998.
Krishna, N and Amrithalingam, M, *Sacred Plants of India*, Penguin Books Limited, 2014.
Motloch, J. L, *Introduction to Landscape Design*, US: John Wiley and Sons, 2001.
Dines, N and Harris, C, *Timesavers Standards for Landscape Architecture*, McGraw Hill Education, 1998.
Reid, G, L, *Landscape Graphics*, Watson-Guptill, 2002.
Botkin, D. B and Keller, E. A, *Environmental Science: Earth As a Living Planet*, N Y: John Wiley And Co. 1995.
Grosholz, E,*The Poetics of Landscape Architecture,*University of Pennsylvania Press,2010.

ELECTIVE I [CONTEMPORARY ARCHITECTURE]			
Course Code		3201940 [SS]	
Teaching Scheme		ExaminationScheme	
TotalContact Hours per week= (lectures=1, Studio=2, Total=3)		Sessional [CIA 50+EA 50]	100
		In-semester exam	NIL
		End Semester exam	NIL
		TotalMarks	50
		Total Credits	02

Course Objectives:

- To analyze the contemporary trends/approaches in architectural production in terms of design, practices, its perception, appreciation and critical discourses.
- To critically reflect and comment on contemporary architecture across the world.

Course Outline:

Unit 1 -	Post-Modernism and other movements in Architecture since the second half of 20th century.
Unit 2 -	Post 2000 CE trends in architecture, various critical discourses and current architectural issues
Unit 3 -	Analysis and critical appraisal of Architecture across the world

Sessional Work:

- Book review / article / chapter of a book in 1000 words.
- Unit 3 should be a research essay of about 1500-2000 words on a topic selected by the student and accompanied by an oral presentation of 15 minutes duration and discussion.

Students should be encouraged to follow the formalities of writing a research essay. The submission has to be in hand written format.

Students should be assessed primarily for the identification of issues, ability to take position and development of an argument.

Course Specific Outcomes:

1. Application of the knowledge gained through the study of history of architecture to analyse contemporary architecture.
2. Development of individual view point and construction of an argument to put it across.
3. Skill of orally presenting a topic of choice, and generating a discussion.

REFERENCE BOOKS

- Buchanan, Peter. "The Big Rethink". The Architectural Review (AR), (Articles – December2011, January to May 2012, July – September 2012, November 2012)
- Correa, Charles. A Place in the Shade: The New Landscape and Other Essays. PenguinBooks India, 2010.
- Curtis, William J R. Modern Architecture since 1900. Phaidon, 2007.
- Frampton, Kenneth. Modern Architecture. Thames and Hudson, 1992.
- Hays, K. Michael. Architecture Theory since 1968 (2000). MIT Press., Oct 1997, Feb. 2000.
- Hertzberger, Herman. Lessons for Students in Architecture. 010 Publishers, 1973.
- Jencks, Charles. The New Paradigm in Architecture- The Language of Post-Modern Architecture. Yale University Press, 2002.
- Leach, Neil. Anaesthetics of Architecture, MIT Press, 1999
- Mehrotra, Rahul. Architecture in India: Since 1990. Pictor Publishing, 2007.
- Pallasma, Juhani. The Eyes of the Skin: Architecture and the Senses. Academy Press, 2
- edition, 2005
- Smith, Koryden H. Introducing Architectural Theory. Routledge, 2012
- Unwin, Simon. Analysing Architecture. Routledge, 2002.
- Venturi, Robert. Complexity and Contradiction in Architecture. MOMA, 1966.
- Wigley, Mark. The Architecture of Deconstruction- Derrida's Haunt. MIT Press, 1993.

Building Services III	
Course Code	3201941 [P] & 3201942 [SS]

—. *Visual Research Methods in Design*. USA: Van Nostrand Reinhold, 1991.

ELECTIVE II			
Course Code		3201949 [SS]	
Teaching Scheme		ExaminationScheme	
TotalContact Hours per week= (lectures=1, Studio=3, Total=4)		Sessional [CIA 50+EA 50]	100
		In-semester exam	NIL
		End Semester exam	NIL
		TotalMarks	100
		Total Credits	03

Course Objectives:

To allow the students to study a subject of their intrest and develop theoretical as well as practical understanding of the same. As mentioned in the course structure of 2019 pattern syllabus [Appendix B] a student may adhere to a particular stream of elective of his/her choice and ***nurture his/her area of interest and develop his/her expertise***. However colleges have to ensure that the student does not repeat a particular elective.

Course Outline:

Colleges have to develop course outline for the elective they wish to offer such that theoreticalas well practical aspects are covered linking them to the field of architecture. Apart from lectures delivered by the subject resource persons, self study in form of hands on workshop / field work/ review of literature / seminar or any suitable format of learning may b e adopted.

Sessional Work:

The submission to be devised by the colleges in form suitable to the elective offered. The format could be [but not limited to]as following.

- **Field study reports**
- **Mapping / documentation / photographic / videographic documentation**
- **Measured drawings**
- **Computer based assignments**
- **Tutorials**

Course Specific Outcomes:

Building Services IV	
Course Code	3201950[P] & 3201951 [SS]
TeachingScheme	ExaminationScheme

- It is beneficial to the students if the topic is related to their architectural design project.

RECOMMENDED READINGS:

1. Babbie, E. 1983. *The Practice of Social Research*. Third edition. Belmont: Wadsworth Publishing Co.
2. Creswell, J.W. 1994. *Research Design: Qualitative and Quantitative Approaches*. Thousand Oaks: Sage.
3. De Vaus, D.A. 2003. *Surveys in Social Research*. Jaipur: Rawat Publications.
4. Dey, I. 1993. *Qualitative Data Analysis: A User Friendly Guide for Social Scientists.* London: Routledge.
5. Groat, L. & Wang, D. 2002. *Architectural Research Methods.* New York: John Wiley and Sons Inc.
6. Kothari, C.R. 2005. *Research Methodology: Methods and Techniques.* New Delhi: Wishwa Prakashan.
7. Michelson, William. 1982. *Behavioural Methods in Environmental Design.* Stroudsburg, Pennsylvania: Dowden, Hutchinson and Ross, Inc.
8. Nachmias, C.F. & Nachmias, D. 1996. *Research Methods in Social Sciences.* Great Britain: St. Martin's Press Inc.
9. Patton, M.Q. 1980. Qualitative Evaluation Methods. Newbury Park: Sage Publications.
10. Sanoff, H. 1977. *Methods of Architectural Programming*. Vol. 29. Dowden Huthinson and Ross, Inc.
11. Sanoff, H. 1991. *Visual Research Methods in Design*. USA: Routledge Revivals.
12. *** Research papers published in journals from UGC-CARE list may be referred for understanding the overall structure and style of technical writing.*

ELECTIVE III		
Course Code	5201970 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 4 (Lecture: 1, Studio :3)	Sessional (internal)	50
	Sessional (external)	50
	Viva (internal)	NIL
	Viva (external)	NIL
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVES

To allow the students to study a subject of their interest and develop theoretical as well as practical understanding of the same

As mentioned in the course structure of 2019 pattern syllabus [Appendix B] a student may adhere to a particular stream of elective of his/her choice and nurture his/her area of interest and develop his/her expertise.

However, colleges have to ensure that the student does not repeat a particular elective.

COURSE OUTLINE:

Colleges have to develop course outline for the elective they wish to offer such that theoretical as well as practical aspects are covered linking them to the field of architecture.

Apart from lectures delivered by the subject resource persons, self-study in form of hands-on workshop / field work/ review of literature / seminar or any suitable format of learning may be adopted.

SESSIONAL WORK:

The submission to be devised by the colleges in form suitable to the elective offered. The format could be [but not limited to] as following.

- Field study reports
- Mapping / documentation / photographic / video graphic documentation
- Measured drawings
- Computer based assignments
- Tutorials

QUANTITY SURVEYING & SPECIFICATION WRITING I		
Course Code	4201958 [THEORY]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 4 (Lectures: 2, Studio :2)	Sessional Viva	NIL
	In-semester exam	30
	End Semester exam	70
	Total Marks	100
	Total Credits	03

COURSE OBJECTIVES:

- To Introduce Estimation as an important Subject for Architecture.
- To Understand Different methods of Computing Quantities for items of work in a structure.
- To acquaint students with methodology of writing specifications with reference to building trades, materials, workmanship & performance of different items of work.

ELECTIVE IV		
Course Code	4201963 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 3 (Lecture: 1, Studio :2)	Sessional (internal)	25
	Sessional (external)	25
	Viva (internal)	NIL
	Viva (external)	NIL
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	50
	Total Credits	02

COURSE OBJECTIVES

To allow the students to study a subject of their interest and develop theoretical as well as practical understanding of the same

As mentioned in the course structure of 2019 pattern syllabus [Appendix B] a student may adhere to a particular stream of elective of his/her choice and nurture his/her area of interest and develop his/her expertise.

However, colleges have to ensure that the student does not repeat a particular elective.

COURSE OUTLINE:

Colleges have to develop course outline for the elective they wish to offer such that theoretical as well as practical aspects are covered linking them to the field of architecture.

Apart from lectures delivered by the subject resource persons, self-study in form of hands-on workshop / field work/ review of literature / seminar or any suitable format of learning may be adopted.

SESSIONAL WORK:

The submission to be devised by the colleges in form suitable to the elective offered. The format could be [but not limited to] as following.

- Field study reports
- Mapping / documentation / photographic / video graphic documentation
- Measured drawings
- Computer based assignments
- Tutorials

ELECTIVE V		
Course Code	4201964 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 3 (Lecture: 1, Studio :2)	Sessional (internal)	25
	Sessional (external)	25
	Viva (internal)	NIL
	Viva (external)	NIL
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	50
	Total Credits	02

COURSE OBJECTIVES

To allow the students to study a subject of their interest and develop theoretical as well as practical understanding of the same

As mentioned in the course structure of 2019 pattern syllabus [Appendix B] a student may adhere to a particular stream of elective of his/her choice and nurture his/her area of interest and develop his/her expertise.

However, colleges have to ensure that the student does not repeat a particular elective.

COURSE OUTLINE:

Colleges have to develop course outline for the elective they wish to offer such that theoretical as well as practical aspects are covered linking them to the field of architecture.

Apart from lectures delivered by the subject resource persons, self-study in form of hands-on workshop / field work/ review of literature / seminar or any suitable format of learning may be adopted.

SESSIONAL WORK:

The submission to be devised by the colleges in form suitable to the elective offered. The format could be [but not limited to] as following.

- Field study reports
- Mapping / documentation / photographic / video graphic documentation
- Measured drawings
- Computer based assignments
- Tutorials

ELECTIVE VI		
Course Code	4201957 [SS]	
Teaching Scheme	Examination Scheme	
Total Contact Hours per week: 3 (Lecture: 1, Studio :2)	Sessional (internal)	25
	Sessional (external)	25
	Viva (internal)	NIL
	Viva (external)	NIL
	In-semester exam	NIL
	End Semester exam	NIL
	Total Marks	50
	Total Credits	02

COURSE OBJECTIVES

The elective is offered preferably as an open elective but if it is not possible to offer an open elective the colleges may offer an elective which the student has not undertaken earlier.

To allow the students to study a subject of their interest and develop theoretical as well as practical understanding of the same

As mentioned in the course structure of 2019 pattern syllabus [Appendix B] a student may adhere to a particular stream of elective of his/her choice and nurture his/her area of interest and develop his/her expertise.

However, colleges have to ensure that the student does not repeat a particular elective.

COURSE OUTLINE:

Colleges have to develop course outline for the elective they wish to offer such that theoretical as well as practical aspects are covered linking them to the field of architecture.

Apart from lectures delivered by the subject resource persons, self-study in form of hands-on workshop / field work/ review of literature / seminar or any suitable format of learning may be adopted.

SESSIONAL WORK:

- The submission to be devised by the colleges in form suitable to the elective offered. The format could be [but not limited to] as following.
- Field study reports
- Mapping / documentation / photographic / video graphic documentation
- Measured drawings
- Computer based assignments
- Tutorials

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VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

Criteria 1 – Curricular Aspects

Key Indicator- 1.2 Academic Flexibility

1.2.1 Number of Programmes in which Choice Based Credit System (CBCS)/ elective course system has been implemented

4. **Elective list as per syllabus**

VIDYA PRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI

ANNEXURE B : LIST OF ELECTIVE COURSES.

Following are the broad streams and electives under them which can be offered in a college. A student can select any one elective from any stream for ***electives II to V** each*. A student may adhere to a particular stream of elective of his/her choice and ***nurture his/her area of interest and develop his/her expertise***. However colleges have to ensure that the student does not repeat a particular elective.

Elective VI is preferably offered as an ***open elective***. In case it is not possible to offer open elective colleges should offer any elective from the list of electives which the student has not undertaken earlier.

Codes for stream A	**Stream A** **Art / Design**	**Codes for Stream B**	**Stream B** **Technology / Management**	**Codes for stream C**	**Stream C** **Social/Humanities/History**
A1	Product Design	B1	Architecture using Glass	C1	Gender and Architecture
A2	Furniture Design	B2	Architecture using Steel	C2	Architecture of South Asia
A3	Interior Design	B3	Mud Architecture	C3	Architectural Anthropology
A4	Architectural Conservation	B4	Pre fabricated construction	C4	Vernacular Architecture
A5	Universal Design	B5	Pre stressed construction	C5	Culture and Design
A6	Advanced Landscape Design	B6	Disaster Mitigation and Management	C6	Sociology and Architecture
A7	Graphic Design	B7	Green Buildings and Rating Systems	C7	Colonial Architecture
A8	Architectural Photography	B8	Sustainable Cities and Communities	C8	Regional Architecture
A9	Art in Architecture	B9	Building Performance and Compliance	C9	Cultural Landscapes
A10	Theory of Design	B10	Appropriate Building Technologies	C10	Slum Rehabilitation
A11	Urban design	B11	Earthquake Resistant Architecture	C11	Basics of Archaeology
A12	Architectural	B12	Tensile Structures	C12	Introduction to Anthropology

Codes for stream A	Stream A Art / Design	Codes for Stream B	Stream B Technology / Management	Codes for stream C	Stream C Social/Humanities/History
	Journalism				
A13	Music and Space	B13	Facility Management	C13	Environmental Psychology
A14	Healthcare Design	B14	Geographic Information System	C14	Ekistics
A15	Hospitality Design	B15	Parametric modelling	C15	Ecology
A16	Industrial Buildings Design	B16	BIM (Building Information Modelling)	C16	Politics and Architecture
A17	Way finding and Navigation	B17	Introduction to Programming and Embedded Design for Architects	C17	Indology
A18	User experience design	B18	Intelligent Building Systems	C18	Affordable Housing

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VIDYAPRATISHTHAN'S SCHOOL OF ARCHITECTURE BARAMATI