



Pillai

Mahatma Education Society's

PILLAI HOC COLLEGE OF ARCHITECTURE

Pillai HOCL Educational Campus, HOC Colony, Rasayani, Via Panvel, Dist- Raigad, Pin: 410207

Tel: 02192- 669002

Web: www.phcoa.ac.in

mail: phcoaadmin@mes.ac.in

Approved by COA, Government of Maharashtra and Affiliated to University of Mumbai

Inst. Code- AR3427

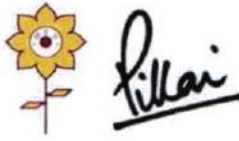
Criteria 2 – Teaching Learning & Evaluation

2.6: Student Performance and Learning Outcomes

2.6.2

**Attainment of POs and COs are
evaluated**





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Criteria 2 – Teaching Learning & Evaluation

2.6. Student Performance and Learning Outcomes

2.6.2 Attainment of POs and COs are evaluated

Document related to CO and PO attainment.

Sr. No.	Contents (Documents)
1	Flow chart demonstrating the Attainment of Program Outcome
2	Samples of CO to PO attainment





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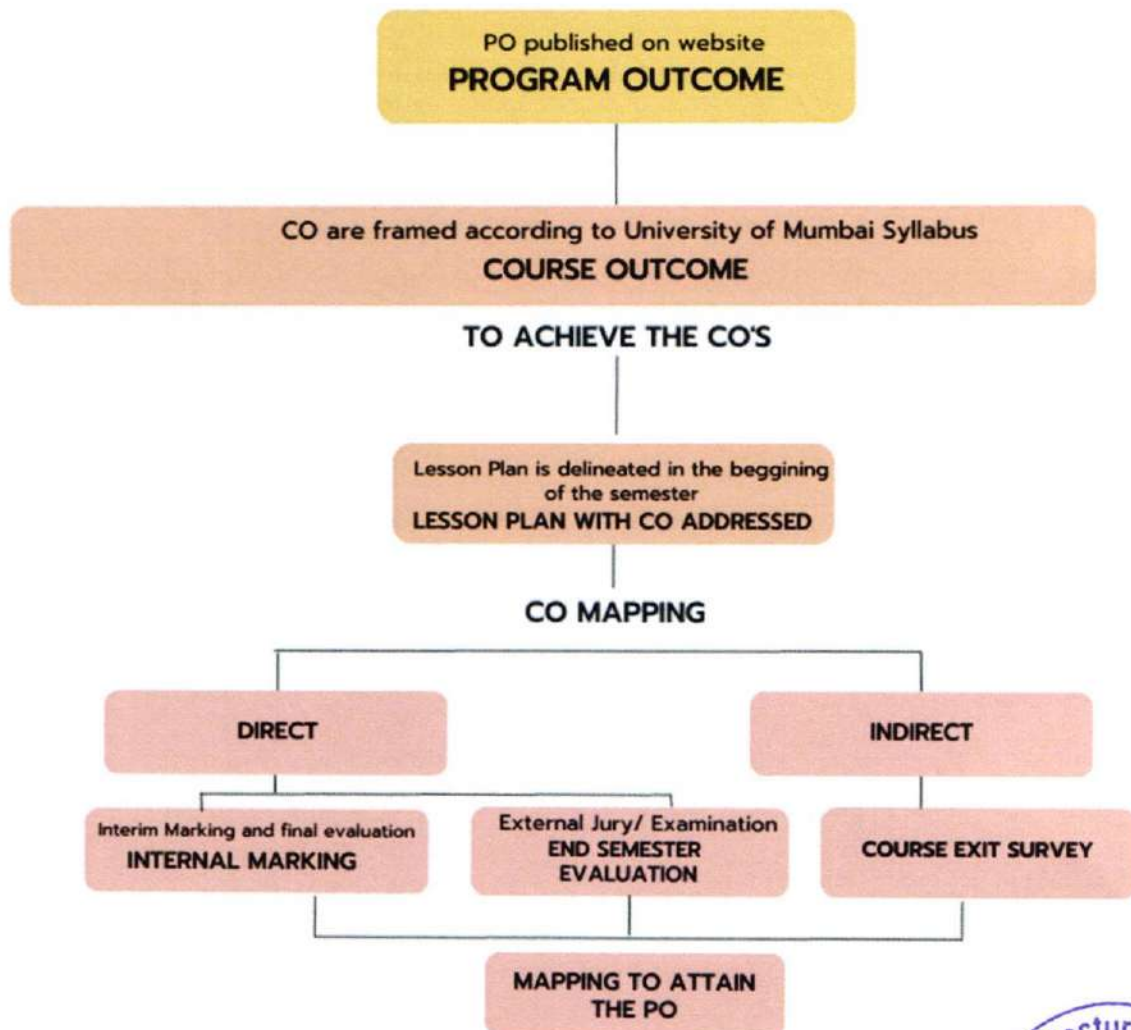
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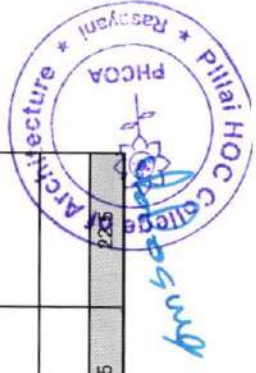
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Inst. Code- AR3427

ATTAINMENT OF PROGRAM Procedure



Mahatma Education Society's							
Pillai HOC college of Architecture, Rasayani							
Course outcome attainment from End Semester Examination (Assignment Mapping)							
Course - Design Dissertation 1011						Academic Year - 2022-23	
Faculty Name- Ar. Aswathy R, Ar. Sandhya M, Ar.Amit M, Ar.Amit K, Ar.Jayant S, Ar.Priyam K, Ar. Renuka W, Ar. Abhishek C,Ar. Amrut D, Ar. Rajanigandha, Ar.Meghana, Ar.Pooja H						Semester - X	
Sr. No	Assignment	Marks	CO1 Students will be able to summarize area program and conceptual design from the case study analysis	CO2 Students will be able to illustrate design development and detailing	CO3 Students will be able to outline the functionality of the design with cross jury evaluation	CO4 Students will be able to organise construction and services detailing wrt architectural design parameter	CO5 Students will be able to conclude the final design solution to the architectural topic and faculty feedback
1	Stage 1- Design Concept Development	30	20	10			
2	Stage 2- Design Development	40		20	20		
3	Stage 3- Design Detailing	50		25	15	10	
4	Stage 4- Final Design Compilation	45			10	15	20
5	Stage 5- Final Design Presentation	35				10	25
6							
7							
Total		100	10	27.5	22.5	17.5	22.5



41	MAPKAR ZAID IFTIKHAR	155	15	7	17	14	18	10	8	10	18	8	22
42	/MARIAM AQSA VARGHESE	115	10	6	14	12	17	12	7	4	9	6	11
43	MULUK BHUSHAN MAHADEV	105	10	3	10	10	12	10	5	5	10	7	15
44	/MUNGLI SAKSHI CHANDRASHKHAR	110	12	6	16	14	14	10	6	3	7	5	10
45	/PANCHAL SANIKA MURLIDHAR	126	11	8	13	13	20	6	6	7	12	5	15
46	/PANSARE PRIYA BABAJI	102	8	4	8	9	10	11	7	6	10	7	17
47	/PATIL PRITI VIJAY	140	10	7	10	11	19	12	7	9	15	8	22
48	/PATIL YUKTA JAYANT	120	12	6	15	10	16	7	4	7	14	6	14
49	PAWAR KUNAL PRAMOD	110	11	4	14	8	14	5	6	5	12	8	16
50	/RAJPUT SNEHA UDAYSINGH	140	10	7	10	11	19	10	7	9	15	8	22
51	/RANDHIR VAISHNAVI YOGESH	140	14	2	14	12	15	12	7	8	12	9	20
52	SALUNKHE SHUBHAM SUNIL	120	5	5	15	15	10	8	8	8	16	8	10
53	/SINGHAM ICHCHHA VIJAYENDRA	125	8	7	17	10	8	10	5	6	11	7	18
54	SURVE SANKALP SUNIL	102	7	3	8	10	7	12	6	5	9	8	16
55	SUTAR TUSHAR TULSHIRAM	110	9	6	12	12	12	8	7	4	9	6	17
56	/TAPARE HARSHADA ANIL	112	10	7	15	10	9	10	6	7	5	7	16
57	THAKUR DARSHAN TUKARAM	120	6	7	13	12	11	11	7	8	16	8	12
58	WALUNJ SANDESH DILIP	135	12	8	10	12	17	12	8	8	14	8	14
59	/YADAV RITIKA JITENDRA	125	7	5	16	12	12	8	5	8	15	7	20
60	/YERNE SIDDHI KISHOR	110	9	7	15	10	10	7	6	6	11	9	15
Average			10.88	6.07	12.57	12.45	15.08	9.78	6.23	6.18	12.87	7.08	15.73

	Out of 200	Out of 100
CO1	10.88	5.44
CO2	33.72	16.86
CO3	28.42	14.21
CO4	22.57	11.28
CO5	28.60	14.30



Mahatma Education Society's

Pillai HOC college of Architecture, Rasayani

Course outcome attainment from End Semester Examination (Indirect Mapping)

Course - Design Dissertation 1011

Academic Year - 2022-23

Faculty Name- Ar. Aswathy R , Ar. Sandhya M, Ar.Amit M, Ar.Amit K, Ar.Jayant S, Ar.Priyam K, Ar. Renuka W, Ar. Abhishek C,Ar. Amrut D, Ar. Rajanigandha, Ar.Meghana, Ar.Pooja H

Semester - X

INDIRECT ASSESSMENT REPORT

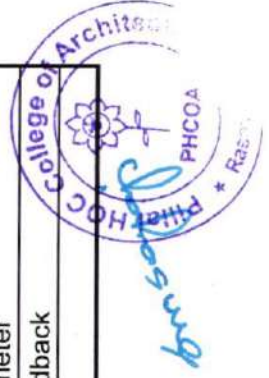
COURSE EXIT SURVEY STATISTICS

Total No. of Students Present for Exit Survey : 39

Course Objectives	Acceptance Level					%	Out of 30
	5	4	3	2	1		
CO1	16	22	1	0	0	88	26.31
CO2	15	21	2	0	1	85	25.54
CO3	13	22	4	0	0	85	25.38
CO4	14	23	2	0	0	86	25.85
CO5	19	18	2	0	0	89	26.62
						Avg.	26

Course Outcomes

- CO1 Students will be able to summarize area program and conceptual design from the case study analysis.
- CO2 Students will be able to illustrate design development and detailing.
- CO3 Students will be able to outline the functionality of the design with cross jury evaluation
- CO4 Students will be able to organise construction and services detailing wrt architectural design parameter
- CO5 Students will be able to conclude the final design solution to the architectural topic and faculty feedback



Pillai HOC college of Architecture, Rasayani

Course outcome attainment from End Semester Examination (Direct Mapping)

Course - Design Dissertation 1011

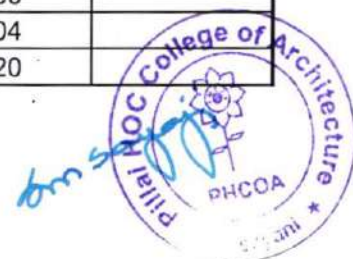
Academic Year - 2022-23

Faculty Name- Ar. Aswathy R , Ar. Sandhya M, Ar.Amit M, Ar.Amit K, Ar.Jayant S, Ar.Priyam K, Ar. Renuka W, Ar. Abhishek C,Ar. Amrut D, Ar. Rajanigandha, Ar.Meghana, Ar.Pooja H

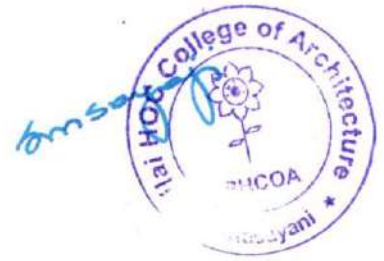
Semester - X

DIRECT ASSESSMENT REPORT

Sr. No		Internal	Jury	End sem
		200	200	0
1	/ARABEKAR SAMIKSHA PRAVIN	110	100	
2	/BHOIR AISHWARYA EKNATH	100	20	
3	/BHOIR PRADNYA LILADHAR	112	136	
4	CHAUDHARI NIKHIL SUNIL	110	135	
5	/DHUMAL SHRADDHA RAVINDRA	120	130	
6	DSOUZA GRATUS MININ	140	120	
7	/GAONKAR MRUDULA BHARGAV	100	115	
8	/GUJAR SHRISHA SANJAY	120	125	
9	JAISWAL ABHISHEK PREMKUMAR	120	100	
10	JADHAV NISHANT HARI	110	140	
11	/JOGI SAYALI ABHINAY	120	110	
12	KARKHILE SHRITEJ SUDAM	116	135	
13	KHOCHRE SAHIL SANDESH	125	110	
14	/KOLEKAR SNEHAL HINDURAO	145	140	
15	/MALI MINAL ARUN	125	140	
16	MAHADIK SIDDHANT PRAVIN	145	104	
17	/MHASKAR SHREYA SANJAY	105	110	
18	/MORE AARYA SUNIL	155	160	
19	NIMJE TEJAS SANJAY	125	120	
20	/PATIL PRANALI PANDIT	110	145	
21	RANADIVE MANAS SANDEEP	125	60	
22	/SHAH YUTIKA KETAN	105	135	
23	SHAH UTKARSH KAMLESH	115	100	
24	SHINDE AKASH VENKATRAO	130	110	
25	/SURAVKAR KHYATI RAJIV	140	105	
26	VAIJULE ANIKET ANIL	157	120	
27	/BIRJE RIYA PRASAD	135	140	
28	CHOUDHARY NITESH VALARAM	135	130	
29	DALVI PRATIK SHANKAR	105	110	
30	/DBRITTO PRACHI VICTOR	148	100	
31	DESALE HARSHAL ANIL	145	112	
32	/FERNANDES SARA MICHAEL	130	130	
33	GANDHE HRITHIK NILESH	110	115	
34	GORIWALE KETAN TUKARAM	150	135	
35	/GOHIL ADITI AMRISH	135	107	
36	JAGE NISHANT JAYPRAKASH	115	110	
37	JALVI AKSHAY GANGARAM	146	135	
38	/KERKAR TANIKA SUNIL	120	104	
39	MADHAVI SIDDHANT SUDHIR	125	120	



40	MAHAJAN VEDANT VAIBHAV	145	120	
41	MAPKAR ZAID IFTIKHAR	155	150	
42	/MARIAM AQSA VARGHESE	115	50	
43	MULUK BHUSHAN MAHADEV	105	140	
44	/MUNGLE SAKSH CHANDRASHEKHAR	110	115	
45	/PANCHAL SANIKA MURLIDHAR	126	125	
46	/PANSARE PRIYA BABAJI	102	100	
47	/PATIL PRITI VIJAY	140	125	
48	/PATIL YUKTA JAYANT	120	130	
49	PAWAR KUNAL PRAMOD	110	110	
50	/RAJPUT SNEHA UDAYSINGH	140	125	
51	/RANDHIR VAISHNAVI YOGESH	140	100	
52	SALUNKHE SHUBHAM SUNIL	120	125	
53	/SINGHAM ICHCHHA VIJAYENDRA	125	120	
54	SURVE SANKALP SUNIL	102	102	
55	SUTAR TUSHAR TULSHIRAM	110	105	
56	/TAPARE HARSHADA ANIL	112	155	
57	THAKUR DARSHAN TUKARAM	120	120	
58	WALUNJ SANDESH DILIP	135	120	
59	/YADAV RITIKA JITENDRA	125	160	
60	/YERNE SIDDHI KISHOR	110	105	

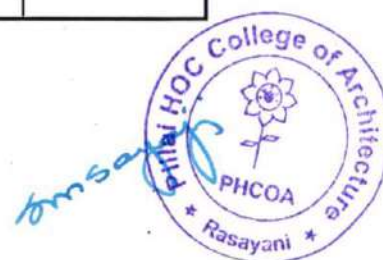


Total No of Students on roll no.	60	60	
Total No of Students Present	60	60	0
Average Marks (out of 100)	62	59	0
No of students at and above target level	60	57	0
% of students at and above target level	100.0	95.0	0.0
Level	3	3	0
Weightage of assesment criteria	50%	50%	0%
	1.5	1.5	0
Total Course Attainment	3		
Target score (internal)	Target score (Jury)		
100	100		

If 40% of students above target score - attainment level 1
If 60% of students above target score - attainment level 2
If 70% of students above target score- attainment level 3

	Max Marks	100	100	
1	Distribution of Marks for CO1	10.00	20	
2	Distribution of Marks for CO2	27.50	20	
3	Distribution of Marks for CO3	22.50	20	
4	Distribution of Marks for CO4	17.50	20	
5	Distribution of Marks for CO5	22.50	20	
	Total	100	100	

Percentage attainment at CO level			
	Internal	Jury	End sem
CO1	5.44	11.79	0.00
CO2	16.86	11.79	0.00
CO3	14.21	11.79	0.00
CO4	11.28	11.79	0.00
CO5	14.30	11.79	0.00



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Course outcome attainment from End Semester Examination (Course Assessment Report)

Course - Design Dissertation 1011

Academic Year - 2022-23

Faculty Name - Ar. Aswathy R, Ar. Sandhya M, Ar. Amit M, Ar. Jayant S, Ar. Priyam K, Ar. Renuka W, Ar. Abhishek C, Ar. Amrut D, Ar. Rajanigandha, Ar. Meghana, Ar. Pooja H

Semester - X

COURSE ASSESSMENT REPORT

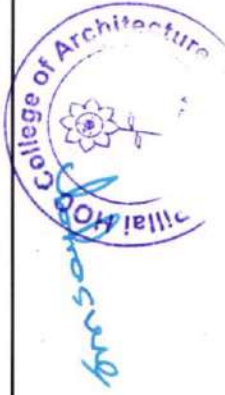
Course	Course Outcome				Total		
	Indirect	Direct	Internal	Jury		End sem	Direct Measurement
% Weightage	30	35	35	0	100		
CO1	26.31	1.90	4.1	0.0	32	6	
CO2	25.54	5.90	4.1	0.0	36	10	
CO3	25.38	4.97	4.1	0.0	34	9	
CO4	25.85	3.95	4.1	0.0	34	8	
CO5	26.82	5.01	4.1	0.0	36	9	

Course Outcome	Total Attainment	Program Outcome												
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	32	3	3	1	2	3	0	0	1	2	2	3	1	2
CO2	36	3	2	3	2	3	0	3	0	2	2	3	2	3
CO3	34	3	2	2	2	2	0	2	0	2	2	2	1	3
CO4	34	2	2	3	3	3	1	3	1	2	2	3	3	2
CO5	36	3	2	3	1	3	1	3	1	2	2	3	3	3
Total Attainment of PO	96.45	75.29	83.40	68.46	96.34	13.93	20.40	76.93	68.82	96.34	69.39	89.98		
Level of attainment														
LEVEL 1=0-30,														
LEVEL 2= 30-60,														
LEVEL 3 =60 ONWARDS														
Indirect Measurement	72.65	57.14	62.22	51.72	72.74	10.49	15.75	56.95	51.88	72.74	52.03	67.38		
Direct	19.84	15.13	17.66	13.95	2.87	16.65	14.12	3.87	19.67	14.47	18.83	22.00		
1: Low 2: medium 3: High 0: Not Existing														



Program Outcomes

PO-1	Architectural knowledge : Create architectural solutions by applying knowledge in history, theory, planning, building technology and utilities , structural concepts and professional practice.
PO-2	Problem analysis : Use concepts and principles from specialized fields and allied disciplines into various architectural problems
PO-3	Design/development of solutions : Ability to apply relevant law, codes, charters and standards of Architecture and the built environment in the preparation of design solutions.
PO-4	Conduct investigations of complex problems : Application of research methods including experiments, analysis and interpretation of data and synthesis of information to address architectural problems
PO-5	Modern tool usage : Use of various information and communication technology (ICT) media for architectural solutions, presentations and techniques in design and construction
PO-6	The architect and society : Acquisition of entrepreneurial and business acumen relevant to architectural practice
PO-7	Environment and sustainability : Understanding the principles of sustainability in making architectural decisions that conserve natural and built resources, including culturally important buildings and sites and in the creation of healthy buildings and communities.
PO-8	Ethics : Apply ethical principles and commit to professional ethics and responsibilities and norms of the architectural professional practice.
PO-9	Individual and team work : Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-10	Communication : Ability to communicate effectively to produce a comprehensive architectural project
PO-11	Project management and finance : Involvement in the management of the construction works and building administration
PO-12	Life-long learning : Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change



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Pillai HOC college of Architecture, Rasayani

Course outcome attainment from End Semester Examination (Exam Paper)

Course - Architectural building construction (503)

Faculty Name-Ar. Suchita S, Ar. Akanksha R

Academic Year - 2022-23

Semester - V

Odd Semester Exam Question Paper

UNIVERSITY OF MUMBAI
 PILLAI HOC COLLEGE OF ARCHITECTURE, RASAYANI
 Pillai HOC, 1500, Ashokrao Chavan Marg, Mumbai - 400007
 OCT 22 / 910

YEAR: FIFTH YEAR B.Arch
 SUBJECT: PROFESSIONAL PRACTICE
 DATE: 11 / 10 / 2022
 MAXIMUM MARKS: 50
 SEMESTER: I
 SUBJECT CODE: 910
 DURATION: 2 HRS

INSTRUCTIONS:
 1) Q1 is compulsory and carries 20 marks.
 2) Answer any three questions out of remaining four.
 3) Figures to the right indicate full marks.
 4) Draw sketches wherever necessary.

Q. 1) Elaborate (any four out of six): (20 Marks)
 a) Year's Purchase
 b) Sinking Fund
 c) The effect of Preliminary Notification of Acquisition under LARR 2013
 d) Right to commit Nuisance
 e) Over Insurance
 f) Regulating Clause

Q. 2) Analyze the application of the following approach to Valuation (any two out of three): (10 Marks)
 a) Income approach
 b) Cost approach
 c) Market approach

Q. 3) Outline the methods for ascertaining Standard Rent? Assess the role of architect in determining Standard Rent. (10 Marks)
 Q. 4) Elaborate the term Dilapidation? Outline the points covered in Dilapidation Report of a property? (10 Marks)
 Q. 5) Summarize the term Easement. Evaluate the Creation and Extinction of Easements with few examples. (10 Marks)

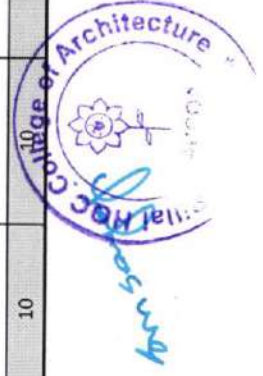
Question No.	Marks	CO1	CO2	CO3	CO4	CO5	CO6
1	30	Students will be able to interpret legal and technical aspects of land acquisition with reference to norms of compensation.	Students will be able to apply legal and technical aspect of valuation as per the market standards..	Students will be able to analyse various norms related to rent with respect to case examples.	Students will be able to assess legal and technical aspect of dilapidation with reference to preparation	Students will be able to illustrate easement of light, ventilation and access with reference to a building structure..	Students will be able to assess the terms related to fire insurance policy with reference to the practical field.
a			5				
b							5
c		5					
d						5	
e							5
f					5		
2	15						
a			5				
b			5				
c			5				
3	10			10			
4	10				10		
5	10					10	

Total	75	5	20	10	15	15	10
Out of	50	3.30	13.20	6.60	9.90	9.90	6.60



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Pillai HOC college of Architecture, Rasayani	
Course outcome attainment from End Semester Examination (Assignment Mapping)	
Academic Year - 2022-23	
Semester - IX	
Course - Professional Practice (910)	
Faculty Name- Ar. Suchita S , Ar. Akanksha R	

Sr. No	Assignment Questions	Marks	CO1	CO2	CO3	CO4	CO5	CO6
1	Assignment 1- Report on Valuation	10	Students will be able to interpret legal and technical aspects of land acquisition with reference to norms of compensation.	Students will be able to apply legal and technical aspect of valuation as per the market standards..	Students will be able to analyse various norms related to rent with respect to case examples.	Students will be able to assess legal and technical aspect of dilapidation with reference to preparation of report.	Students will be able to illustrate easement of light, ventilation and access with reference to a building structure.	Students will be able to assess the terms related to fire insurance policy with reference to the practical field.
2	Assignment 2- Report on Easement	10					10	
3	Assignment 3- Report on Land acquisition	10	10					
4	Assignment 4- Report on Fire Insurance	10						10
5	Assignment 5- Report on Dilapidation	10				10		
Total		50	10	10	0	10	10	10



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Course outcome attainment from End Semester Examination (Assignment Mapping)

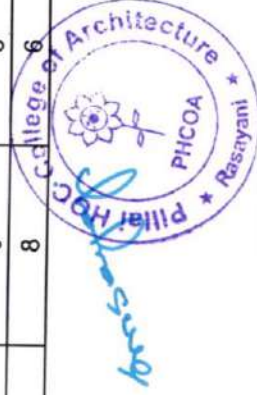
Course - Professional Practice (910)

Faculty Name- Ar. Suchita S , Ar. Akanksha R

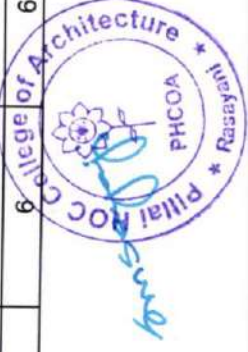
Academic Year - 2022-23

Semester - IX

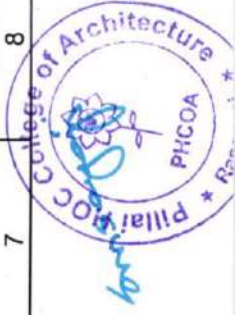
Sr. No	Name of the student	Assignment No.	1					2					3					4					5				
			CO1					CO2					CO3					CO4					CO5				
Internal			10					10					10					10					10				
1	/ACHARYA SIDDHI RAJAN	31	7					6					6					5					7				
2	/ACHARYA TRISHA HARISH	30	6					6					6					6					6				
3	/ARABEKAR SAMIKSHA PRAVIN	35	8					7					7					6					7				
4	/BHOIR AISHWARYA EKNATH	28	6					7					5					5					5				
5	/BHALEKAR DEEPTI SUDESH	33	8					7					7					7					4				
6	/BHOIR PRADNYA LILADHAR	30	6					7					6					6					5				
7	/CHOURE CHANCHAL DADAHARI	35	8					8					7					6					6				
8	CHAUDHARI NIKHIL SUNIL	32	8					8					7					4					5				
9	DESAI SHUBHAM PRAKASH	26	5					5					5					6					5				
10	/DHUMAL SHRADDHA RAVINDRA	34	7					7					7					7					6				
11	DSOUZA GRATUS MININ	33	7					7					7					6					6				
12	GAIKWAD NISHANT RAJARAM	25	4					5					5					5					6				
13	/GAONKAR MRUDULA BHARGAV	38	7					7					8					8					8				
14	/GUJAR SHRISHA SANJAY	34	7					7					7					6					7				
15	JADHAV ADITYA NITIN	34	8					7					7					6					6				
16	JAISWAL ABHISHEK PREMKUMAR	25	5					5					5					5					5				
17	JADHAV NISHANT HARI	33	7					7					7					6					6				
18	JOSHI RUTWIK HARSHADBHAI	35	8					7					7					6					7				
19	/JOGI SAYALI ABHINAY	31	7					7					6					5					6				
20	KARKHILE SHRITEJ SUDAM	28	6					6					6					5					6				
21	KHOCHRE SAHIL SANDESH	36	8					9					8					8					5				



22	KUTE SANDEEP SAMPAT	33	7	7	6	7	6	7	6
23	/KOLEKAR SNEHAL HINDURAO	38	9	9	8	8	8	6	6
24	/MALI MINAL ARUN	27	6	6	6	6	6	4	5
25	MAHADIK SIDDHANT PRAVIN	31	7	7	7	7	7	4	6
26	/MANDAVKAR SALONI MINESH	29	6	6	5	5	5	5	7
27	/MHASKAR SHREYA SANJAY	30	6	6	5	5	5	6	7
28	/MOKAL SAKSHI RAJENDRA	25	8	7	7	7	7	2	1
29	/MORE AARYA SUNIL	29	6	6	6	6	6	6	5
30	NIMJE TEJAS SANJAY	27	5	6	6	6	6	5	5
31	PATEL PIYUSH DINESH	25	5	5	6	6	6	5	4
32	/PATIL PRANALI PANDIT	32	7	7	6	6	6	6	6
33	PATIL SAURABH MANILAL	25	5	5	5	5	5	5	5
34	/PATIL VAISHNAVI SHIVAJI	25	5	5	5	5	5	5	5
35	RANADIVE MANAS SANDEEP	25	5	5	5	5	5	5	5
36	SALUNKE SUSHRUT SHYAMSUNDER	27	6	5	5	5	5	5	6
37	/SHAH YUTIKA KETAN	34	8	8	7	7	7	6	5
38	SHAH UTKARSH KAMLESH	29	6	6	6	6	6	5	6
39	/SHAIKH AFREEN AFZALAHMED	25	5	5	5	5	5	4	4
40	SHINDE AKASH VENKATRAO	30	6	6	6	6	6	6	6
41	/SURAVKAR KHYATI RAJIV	34	8	7	7	7	7	5	7
42	SUTKAR NISHANT PRASHANT	25	5	5	5	5	5	5	5
43	VAIJULE ANIKET ANIL	31	7	6	6	6	6	6	6
44	/WALUNJ MAYURI SAKHARAM	28	6	6	6	6	6	4	6
45	/BIRJE RIYA PRASAD	32	7	7	7	7	7	6	5
46	CHOUDHARY NITESH VALARAM	33	6	8	7	7	7	7	5
47	DALVI PRATIK SHANKAR	35	7	8	7	7	7	7	6
48	/DBRITTO PRACHI VICTOR	29	6	7	6	6	6	5	5
49	DESALE HARSHAL ANIL	30	7	6	6	6	6	6	5
50	/DESHPANDE PRANITA PRASAD	30	6	6	6	6	6	6	6
51	/FERNANDES SARA MICHAEL	32	6	6	6	6	6	6	8



52	GANDHE HRITHIK NILESH	31	7	7	6	6	5
53	GORIWALE KETAN TUKARAM	35	8	7	8	6	6
54	/GOHIL ADITI AMRISH	32	7	7	7	5	6
55	HUDDAR SHUBHAM CHANDRAKANT	30	6	7	6	6	5
56	JAGE NISHANT JAYPRAKASH	33	8	6	7	7	5
57	JALVI AKSHAY GANGARAM	31	7	6	7	6	5
58	/KERKAR TANIKA SUNIL	28	6	6	5	6	5
59	MADHAVI SIDDHANT SUDHIR	30	6	6	7	6	5
60	MAHAJAN VEDANT VAIBHAV	33	8	6	7	7	5
61	MAPKAR ZAID IFTIKHAR	28	6	7	5	5	5
62	/MARIAM AQSA VARGHESE	26	6	5	5	5	5
63	MORDE KUNAL SANTOSH	30	7	5	6	7	5
64	MULUK BHUSHAN MAHADEV	27	6	5	5	5	6
65	/MUNGLE SAKSH CHANDRASHEKHAR	32	6	7	6	7	6
66	/NIKAM MRUNMAYI HEMANT	26	5	5	5	5	6
67	/PANCHAL SANIKA MURLIDHAR	34	8	6	7	8	5
68	/PANSARE PRIYA BABAJI	34	8	7	7	7	5
69	/PATIL PRITI VIJAY	33	8	7	7	6	5
70	/PATIL YUKTA JAYANT	27	5	5	7	4	6
71	PAWAR KUNAL PRAMOD	36	8	8	8	6	6
72	/RAJPUT SNEHA UDAYSINGH	32	7	7	7	6	5
73	/RANDHIR VAISHNAVI YOGESH	29	6	5	5	7	6
74	SALUNKHE SHUBHAM SUNIL	35	8	7	7	7	6
75	SALVI MANTHAN NILESH	33	8	7	6	8	4
76	/SINGHAM ICHCHHA VIJAYENDRA	34	7	7	7	8	5
77	SURVE SANKALP SUNIL	32	8	6	6	7	5
78	SUTAR TUSHAR TULSHIRAM	31	6	7	6	7	5
79	SINGH JOGINDER JAGDISH	32	7	6	6	7	6
80	SURVE SOHAM SUNIL	27	5	5	5	6	6
81	/TAPARE HARSHADA ANIL	35	8	7	7	8	6

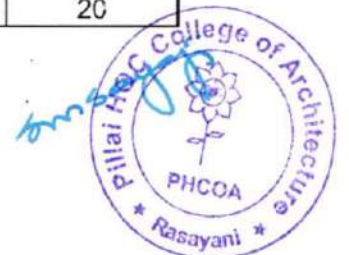


82	THAKUR DARSHAN TUKARAM	25	5	5	5	5	5	5	5
83	VORA DARSHEET PARESH	31	6	7	6	6	6	6	6
84	WALUNJ SANDESH DILIP	27	5	6	6	6	5	5	5
85	YADAV VIVEK VIJAYKUMAR	26	5	5	5	5	5	5	6
86	/YADAV RITIKA JITENDRA	34	8	7	6	6	7	7	6
87	/YERNE SIDDHI KISHOR	32	7	6	6	6	7	7	6

	Out of 50	Out of 100
CO1	7	13
CO2	6	13
CO3	6	12
CO4	6	12
CO5	6	11



Mahatma Education Society's				
Pillai HOC college of Architecture, Rasayani				
Course outcome attainment from End Semester Examination (Direct Mapping)				
Course - Professional Practice (910)			Academic Year - 2022-23	
Faculty Name- Ar. Suchita S , Ar. Akanksha R			Semester - IX	
DIRECT ASSESSMENT REPORT				
Sr. No		Internal 50	Jury 50	End sem 50
1	/ACHARYA SIDDHI RAJAN	31		27
2	/ACHARYA TRISHA HARISH	30		30
3	/ARABEKAR SAMIKSHA PRAVIN	35		20
4	/BHOIR AISHWARYA EKNATH	28		20
5	/BHALEKAR DEEPTI SUDESH	33		24
6	/BHOIR PRADNYA LILADHAR	30		20
7	/CHOURE CHANCHAL DADAHARI	35		20
8	CHAUDHARI NIKHIL SUNIL	32		25
9	DESAI SHUBHAM PRAKASH	26		10
10	/DHUMAL SHRADDHA RAVINDRA	34		15
11	DSOUZA GRATUS MININ	33		25
12	GAIKWAD NISHANT RAJARAM	25		20
13	/GAONKAR MRUDULA BHARGAV	38		20
14	/GUJAR SHRISHA SANJAY	34		29
15	JADHAV ADITYA NITIN	34		27
16	JAISWAL ABHISHEK PREMKUMAR	25		15
17	JADHAV NISHANT HARI	33		20
18	JOSHI RUTWIK HARSHADBHAI	35		28
19	/JOGI SAYALI ABHINAY	31		26
20	KARKHILE SHRITEJ SUDAM	28		32
21	KHOCHRE SAHIL SANDESH	36		26
22	KUTE SANDEEP SAMPAT	33		21
23	/KOLEKAR SNEHAL HINDURAO	38		26
24	/MALI MINAL ARUN	27		20
25	MAHADIK SIDDHANT PRAVIN	31		31
26	/MANDAVKAR SALONI MINESH	29		15
27	/MHASKAR SHREYA SANJAY	30		33
28	/MOKAL SAKSHI RAJENDRA	25		20
29	/MORE AARYA SUNIL	29		33
30	NIMJE TEJAS SANJAY	27		21
31	PATEL PIYUSH DINESH	25		16
32	/PATIL PRANALI PANDIT	32		35
33	PATIL SAURABH MANILAL	25		15
34	/PATIL VAISHNAVI SHIVAJI	25		23
35	RANADIVE MANAS SANDEEP	25		28
36	SALUNKE SUSHRUT SHYAMSUNDER	27		29
37	/SHAH YUTIKA KETAN	34		20
38	SHAH UTKARSH KAMLESH	29		20
39	/SHAIKH AFREEN AFZALAHMED	25		28
40	SHINDE AKASH VENKATRAO	30		27
41	/SURAVKAR KHYATI RAJIV	34		20
42	SUTKAR NISHANT PRASHANT	25		21
43	VAIJULE ANIKET ANIL	31		20



44	/WALUNJ MAYURI SAKHARAM	28		20
45	/BIRJE RIYA PRASAD	32		32
46	CHOUDHARY NITESH VALARAM	33		27
47	DALVI PRATIK SHANKAR	35		20
48	/DBRITTO PRACHI VICTOR	29		23
49	DESALE HARSHAL ANIL	30		28
50	/DESHPANDE PRANITA PRASAD	30		22
51	/FERNANDES SARA MICHAEL	32		29
52	GANDHE HRITHIK NILESH	31		23
53	GORIWALE KETAN TUKARAM	35		31
54	/GOHIL ADITI AMRISH	32		33
55	HUDDAR SHUBHAM CHANDRAKANT	30		21
56	JAGE NISHANT JAYPRAKASH	33		25
57	JALVI AKSHAY GANGARAM	31		20
58	/KERKAR TANIKA SUNIL	28		26
59	MADHAVI SIDDHANT SUDHIR	30		20
60	MAHAJAN VEDANT VAIBHAV	33		24
61	MAPKAR ZAID IFTIKHAR	28		23
62	/MARIAM AQSA VARGHESE	26		31
63	MORDE KUNAL SANTOSH	30		20
64	MULUK BHUSHAN MAHADEV	27		26
65	/MUNGLE SAKSH CHANDRASHEKHAR	32		31
66	/NIKAM MRUNMAYI HEMANT	26		20
67	/PANCHAL SANIKA MURLIDHAR	34		30
68	/PANSARE PRIYA BABAJI	34		29
69	/PATIL PRITI VIJAY	33		30
70	/PATIL YUKTA JAYANT	27		28
71	PAWAR KUNAL PRAMOD	36		20
72	/RAJPUT SNEHA UDAYSINGH	32		31
73	/RANDHIR VAISHNAVI YOGESH	29		32
74	SALUNKHE SHUBHAM SUNIL	35		26
75	SALVI MANTHAN NILESH	33		25
76	/SINGHAM ICHCHHA VIJAYENDRA	34		35
77	SURVE SANKALP SUNIL	32		20
78	SUTAR TUSHAR TULSHIRAM	31		33
79	SINGH JOGINDER JAGDISH	32		22
80	SURVE SOHAM SUNIL	27		23
81	/TAPARE HARSHADA ANIL	35		15
82	THAKUR DARSHAN TUKARAM	25		20
83	VORA DARSHEET PARESH	31		15
84	WALUNJ SANDESH DILIP	27		28
85	YADAV VIVEK VIJAYKUMAR	26		26
86	/YADAV RITIKA JITENDRA	34		27
87	/YERNE SIDDHI KISHOR	32		15



Total No of Students on roll no.	87	0	87
Total No of Students Present	87		87
Average Marks	61.1954023		48
No of students at and above target level	87		78
% of students at and above target level	100		89.7
Level	3		3
Weightage of assesment criteria	0.5		50%
	1.5		1.5
Total Course Attainment	3		
Target score (internal)	Target score (Jury)		
100	100		
If 40% of students above target score - attainment level 1			
If 60% of students above target score - attainment level 2			
If 70% of students above target score- attainment level 3			

	Max Marks	50	50
1	Distribution of Marks for CO1	10	3.30
2	Distribution of Marks for CO2	10	13.20
3	Distribution of Marks for CO3	10	6.60
4	Distribution of Marks for CO4	10	9.90
5	Distribution of Marks for CO5	10	9.90
6	Distribution of Marks for CO6		6.60
	Total	50	50

Percentage attainment at CO level			
	Internal	Jury	End sem
CO1	7		3
CO2	6		13
CO3	6		6
CO4	6		10
CO5	6		10
CO6	0		6



Mahatma Education Society's										
Pillai HOC college of Architecture, Rasayani										
Course outcome attainment from End Semester Examination (Indirect Mapping)										
Course - Professional Practice (910)					Academic Year - 2022-23					
Faculty Name- Ar. Suchita S , Ar. Akanksha R					Semester - V					
INDIRECT ASSESSMENT REPORT										
COURSE EXIT SURVEY STATISTICS										
Total No. of Students Present for Exit Survey :					39					
Course Objectives	Acceptance Level						%	Out of 30		
	5	4	3	2	1	0				
CO1	7	28	4	0	0	0	82	24		
CO2	10	23	6	0	0	0	82	25		
CO3	5	26	8	0	0	0	78	24		
CO4	9	25	5	0	0	0	82	25		
CO5	11	24	4	0	0	0	84	25		
CO6	9	24	6	0	0	0	82	24		
							Avg.		24	

Course Outcomes	
CO1	Students will be able to interpret legal and technical aspects of land acquisition with reference to norms of compensation.
CO2	Students will be able to apply legal and technical aspect of valuation as per the market standards..
CO3	Students will be able to analyse various norms related to rent with respect to case examples.
CO4	Students will be able to assess legal and technical aspect of dilapidation with reference to preparation of report.
CO5	Students will be able to illustrate easement of light, ventilation and access with reference to a building structure.
CO6	Students will be able to assess the terms related to fire insurance policy with reference to the practical field.



Mahatma Education Society's	
Pillai HOC college of Architecture, Rasayani	
Course outcome attainment from End Semester Examination (Course Assessment Report)	
Academic Year - 2022-23	Semester - IX
Faculty Name- Ar. Suchita S , Ar. Akanksha R	
COURSE ASSESSMENT REPORT	

Course Outcome	Indirect Measure	Direct Measure 70%	Course Outcome			Total Attainment
			Internal	Jury	End sem	
% Weightage	30	35	0	35	70	100
CO1	24	3.50	0.0	1.2	5	29
CO2	25	3.50	0.0	4.6	8	33
CO3	24	3.50	0.0	2.3	6	29
CO4	25	3.50	0.0	3.5	7	32
CO5	25	3.50	0.0	3.5	7	32
CO6	24	0.00	0.0	2.3	2	27

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	29	1	2	3	2	0	2	0	3	2	0	1	3
CO2	33	2	3	3	3	2	3	1	3	2	3	1	2
CO3	29	1	2	3	2	1	3	1	3	2	3	2	2
CO4	32	2	3	2	1	1	1	3	3	1	1	3	2
CO5	32	3	2	2	3	1	3	3	3	2	2	1	3
CO6	27	2	2	3	3	1	2	0	2	3	2	1	3
Total Attainment of PO	56.13	71.25	80.19	70.53	30.87	70.96	42.16	86.34	59.73	55.91	45.68	80.08	

Program Outcomes	
PO-1	Architectural knowledge : Create architectural solutions by applying knowledge in history, theory, planning, building technology and utilities , structural concepts and professional practice.
PO-2	Problem analysis : Use concepts and principles from specialized fields and allied disciplines into various architectural problems
PO-3	Design/development of solutions: Ability to apply relevant law, codes, charters and standards of Architecture and the built environment in the preparation of design solutions.
PO-4	Conduct investigations of complex problems: Application of research methods including experiments, analysis and interpretation of data and synthesis of information to address architectural problems
PO-5	Modern tool usage: Use of various information and communication technology (ICT) media for architectural solutions, presentations and techniques in design and construction
PO-6	The architect and society: Acquisition of entrepreneurial and business acumen relevant to architectural practice
PO-7	Environment and sustainability: Understanding the principles of sustainability in making architectural decisions that conserve natural and built resources, including culturally important buildings and sites and in the creation of healthy buildings and communities.
PO-8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the architectural professional practice.
PO-9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-10	Communication: Ability to communicate effectively to produce a comprehensive architectural project
PO-11	Project management and finance: Involvement in the management of the construction works and building administration
PO-12	Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change



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Mahatma Education Society's

Pillai HOC college of Architecture, Rasayani

Course outcome attainment from End Semester Examination (Assignment Mapping)

Course - Environmental Studies 4 (906)

Faculty Name- Ar. Abhishek Chakraborty

Academic Year - 2022-23

Semester - IX

Sr. No	Assignment Questions	Marks	CO1	CO2	CO3	CO4	CO5	CO6
1	Report 1 - Summarize terminologies of sustainability from NBC chapter 11		Students will be able to explain meaning and key concepts of sustainability through chapter 11 of the National Building Code.	Students will be able to calculate energy consumption of everyday household electrical fittings and appliances with the help of a live building project (eg. their own house) using ECBC norms.	Students will be able to calculate generation of electricity using solar energy for a building project.	Students will be able to assess various green building certification systems based on their various parameters, understand systems like DEWATS, rain water harvesting, etc. through comparative case studies of two buildings rated in GRIHA and IGBC.		
2	Report 2 - List down list of appliances and calculate electrical consumption for your home		10	25				
3	Report 3 - Calculate the area of PV cell panels required to generate enough electricity for own house consumption				25			
4	Case Study Report 4 - Comparative analysis through live/book case study of two buildings, each one rated using GRIHA and IGBC green rating system					40		
5								
6								
7								
Total		100	10	25	25	40		



Mahatma Education Society's										
Pillai HOC college of Architecture, Rasayani										
Course outcome attainment from End Semester Examination (Assignment Mapping)										
Faculty Name- Ar. Abhishek Chakraborty										
Academic Year - 2022-23										
Semester - IX										
Sr. No	Name of the student	Assignment				CO1	CO2	CO3	CO4	4
		Internal	1	2	3					
		100	10	25	25	40				
1	/ACHARYA SIDDHI RAJAN	55	5	12	13	25				
2	/ACHARYA TRISHA HARISH	56	6	15	11	24				
3	/ARABEKAR SAMIKSHA PRAVIN	53	4	17	9	23				
4	/BHALEKAR DEEPTI SUDESH	61	7	16	17	21				
5	/BHOIR AISHWARYA EKNATH	58	5	12	16	21				
6	/BHOIR PRADNYA LILADHAR	55	6	15	11	23				
7	/BIRJE RIYA PRASAD	62	7	18	12	25				
8	CHAUDHARI NIKHIL SUNIL	51	6	12	11	22				
9	CHOUDHARY NITESH VALARAM	62	8	16	14	24				
10	/CHOURE CHANCHAL DADAHARI	50	6	13	11	20				
11	DALVI PRATIK SHANKAR	50	4	12	10	24				
12	/DBRITTO PRACHI VICTOR	62	6	18	11	27				
13	DESAI SHUBHAM PRAKASH	52	5	15	11	21				
14	DESALE HARSHAL ANIL	62	6	12	14	30				
15	/DESHPANDE PRANITA PRASAD	50	7	12	11	20				
16	/DHUMAL SHRADDHA RAVINDRA	55	5	14	15	21				
17	DSOUZA GRATUS MININ	50	7	11	10	22				
18	/FERNANDES SARA MICHAEL	70	8	18	17	27				
19	GAIKWAD NISHANT RAJARAM	51	5	14	10	22				
20	GANDHE HRITHIK NILESH	60	6	13	17	24				



21	/GAONKAR MRUDULA BHARGAV	52	5	14	11	22
22	/GOHIL ADITI AMRISH	62	4	17	10	31
23	GORIWALE KETAN TUKARAM	56	4	15	11	26
24	/GUJAR SHRISHA SANJAY	60	8	17	12	23
25	HUDDAR SHUBHAM CHANDRAKANT	60	7	14	19	20
26	JADHAV ADITYA NITIN	55	6	14	11	24
27	JADHAV NISHANT HARI	50	6	10	11	23
28	JAGE NISHANT JAYPRAKASH	62	8	15	13	26
29	JAISWAL ABHISHEK PREM Kumar	51	6	15	11	22
30	JALVI AKSHAY GANGARAM	50	6	10	11	23
31	/JOGI SAYALI ABHINAY	50	5	14	11	20
32	JOSHI RUTWIK HARSHADBHAI	54	4	16	12	22
33	KARKHILE SHRITEJ SUDAM	51	6	14	11	20
34	/KERKAR TANIKA SUNIL	62	8	15	14	25
35	KHOCHRE SAHIL SANDESH	52	5	15	11	21
36	/KOLEKAR SNEHAL HINDURAO	53	6	16	11	20
37	KUTE SANDEEP SAMPAT	55	4	17	10	24
38	MADHAVI SIDDHANT SUDHIR	62	7	18	13	24
39	MAHADIK SIDDHANT PRAVIN	55	8	12	13	22
40	MAHAJAN VEDANT VAIBHAV	62	7	17	14	24
41	/MALI MINAL ARUN	62	6	15	11	30
42	/MANDAVKAR SALONI MINESH	52	5	11	15	21
43	MAPKAR ZAID IFTIKHAR	50	5	13.5	11.5	20
44	/MARIAM AQSA VARGHESE	58	6	13	11	28
45	/MHASKAR SHREYA SANJAY	55	6	10	12	27
46	/MOKAL SAKSHI RAJENDRA	50	4	15	11	20
47	MORDE KUNAL SANTOSH	54	5	10	17	22



48	/MORE AARYA SUNIL	72				8	20	14	30
49	MULUK BHUSHAN MAHADEV	50				6	12	12	20
50	/MUNGLA SAKSH CHANDRASHEKHAR	50				6	17	10	17
51	/NIKAM MRUNMAYI HEMANT	56				7	14	11	24
52	NIMJE TEJAS SANJAY	50				5	11	9	25
53	/PANCHAL SANIKA MURLIDHAR	50				7	10	14	19
54	/PANSARE PRIYA BABAJI	60				8	15	12	25
55	PATEL PIYUSH DINESH	54				6	15	11	22
56	/PATIL PRANALI PANDIT	66				8	17	18	23
57	/PATIL PRITI VIJAY	52				6	14	10	22
58	PATIL SAURABH MANILAL	51				7	13	11	20
59	/PATIL VAISHNAVI SHIVAJI	51				6	12	11	22
60	/PATIL YUKTA JAYANT	60				8	18	10	24
61	PAWAR KUNAL PRAMOD	60				7	17	11	25
62	/RAJPUT SNEHA UDAYSINGH	62				8	18	12	24
63	RANADIVE MANAS SANDEEP	51				8	11	11	20
64	/RANDHIR VAISHNAVI YOGESH	60				8	15	13	24
65	SALUNKE SUSHRUT SHYAMSUNDER	53				5	15	11	22
66	SALUNKHE SHUBHAM SUNIL	60				8	15	13	24
67	SALVI MANTHAN NILESH	50				6	13	11	20
68	SHAH UTKARSH KAMLESH	54				8	12	14	20
69	/SHAH YUTIKA KETAN	55				4	10	16	25
70	/SHAIKH AFREEN AFZALAHMED	58				7	17	14	20
71	SHINDE AKASH VENKATRAO	53				5	13	11	24
72	SINGH JOGINDER JAGDISH	54				8	13	11	22
73	/SINGHAM ICHCHHA VIJAYENDRA	54				6	15	9	24
74	/SURAVKAR KHYATI RAJIV	56				6	15	11	24



75	SURVE SANKALP SUNIL	56	4	18	10	24
76	SURVE SOHAM SUNIL	5	2	2	1	0
77	SUTAR TUSHAR TULSHIRAM	50	4	11	15	20
78	SUTKAR NISHANT PRASHANT	51	6	10	12	23
79	/TAPARE HARSHADA ANIL	52	7	10	11	24
80	THAKUR DARSHAN TUKARAM	50	4	10	10	26
81	VAIJULE ANIKET ANIL	58	5	17	12	24
82	VORA DARSHEET PARESH	50	8	11	11	22
83	/WALUNJ MAYURI SAKHARAM	52	4	14	10	24
84	WALUNJ SANDESH DILIP	54	6	12	12	24
85	/YADAV RITIKA JITENDRA	50	4	12	12	22
86	YADAV VIVEK VIJAYKUMAR	52	6	17	9	20
87	/YERNE SIDDHI KISHOR	54	7	13	12	22
Average		6.03	13.93	11.93	22.83	

	Out of 100	Out of 100
C01	6.03	13.93
C02	13.93	13.93
C03	11.93	11.93
C04	22.83	22.83
C05		
C06		



Mahatma Education Society's						
Pillai HOC college of Architecture, Rasayani						
Course outcome attainment from End Semester Examination (Indirect Mapping)						
Course - Environmental Studies 4 (906)					Academic Year - 2022-23	
Faculty Name- Ar. Abhishek Chakraborty					Semester - IX	
INDIRECT ASSESSMENT REPORT						
COURSE EXIT SURVEY STATISTICS						
Total No. of Students Present for Exit Survey :					42	
Course Objectives	Acceptance Level					
	5	4	3	2	1	Out of 30
CO1	20	21	1	0	0	27
CO2	14	28	0	0	0	26
CO3	12	28	2	0	0	25
CO4	10	30	2	0	0	25
CO5						0
CO6						0
					Avg.	17

Course Outcomes	
CO1	Students will be able to explain meaning and key concepts of sustainability through chapter 11 of the National Building Code.
CO2	Students will be able to calculate energy consumption of everyday household electrical fittings and appliances with the help of a live building project (eg. their own house) using ECBC norms.
CO3	Students will be able to calculate generation of electricity using solar energy for a building project.
CO4	Students will be able to assess various green building certification systems based on their various parameters, understand systems like DEWATS, rain water harvesting, etc. through comparative case studies of two buildings rated in GRIHA and IGBC.



Mahatma Education Society's

Pillai HOC college of Architecture, Rasayani

Course outcome attainment from End Semester Examination (Direct Mapping)

Course - Environmental Studies 4 (906)

Academic Year - 2022-23

Faculty Name- Ar. Abhishek Chakraborty

Semester - IX

DIRECT ASSESSMENT REPORT

Sr. No		Internal	Jury	End sem
		100	0	0
1	/ACHARYA SIDDHI RAJAN	55	0	0
2	/ACHARYA TRISHA HARISH	56	0	0
3	/ARABEKAR SAMIKSHA PRAVIN	53	0	0
4	/BHALEKAR DEEPTI SUDESH	61	0	0
5	/BHOIR AISHWARYA EKNATH	58	0	0
6	/BHOIR PRADNYA LILADHAR	55	0	0
7	/BIRJE RIYA PRASAD	62	0	0
8	CHAUDHARI NIKHIL SUNIL	51	0	0
9	CHOUDHARY NITESH VALARAM	62	0	0
10	/CHOURE CHANCHAL DADAHARI	50	0	0
11	DALVI PRATIK SHANKAR	50	0	0
12	/DBRITTO PRACHI VICTOR	62	0	0
13	DESAI SHUBHAM PRAKASH	52	0	0
14	DESALE HARSHAL ANIL	62	0	0
15	/DESHPANDE PRANITA PRASAD	50	0	0
16	/DHUMAL SHRADDHA RAVINDRA	55	0	0
17	DSOUZA GRATUS MININ	50	0	0
18	/FERNANDES SARA MICHAEL	70	0	0
19	GAIKWAD NISHANT RAJARAM	51	0	0
20	GANDHE HRITHIK NILESH	60	0	0
21	/GAONKAR MRUDULA BHARGAV	52	0	0
22	/GOHIL ADITI AMRISH	62	0	0
23	GORIWALE KETAN TUKARAM	56	0	0
24	/GUJAR SHRISHA SANJAY	60	0	0
25	HUDDAR SHUBHAM CHANDRAKANT	60	0	0
26	JADHAV ADITYA NITIN	55	0	0
27	JADHAV NISHANT HARI	50	0	0
28	JAGE NISHANT JAYPRAKASH	62	0	0
29	JAISWAL ABHISHEK PREMKUMAR	51	0	0
30	JALVI AKSHAY GANGARAM	50	0	0
31	/JOGI SAYALI ABHINAY	50	0	0
32	JOSHI RUTWIK HARSHADBHAI	54	0	0
33	KARKHILE SHRITEJ SUDAM	51	0	0
34	/KERKAR TANIKA SUNIL	62	0	0
35	KHOCHRE SAHIL SANDESH	52	0	0
36	/KOLEKAR SNEHAL HINDURAO	53	0	0



37	KUTE SANDEEP SAMPAT	55	0	0
38	MADHAVI SIDDHANT SUDHIR	62	0	0
39	MAHADIK SIDDHANT PRAVIN	55	0	0
40	MAHAJAN VEDANT VAIBHAV	62	0	0
41	/MALI MINAL ARUN	62	0	0
42	/MANDAVKAR SALONI MINESH	52	0	0
43	MAPKAR ZAID IFTIKHAR	50	0	0
44	/MARIAM AQSA VARGHESE	58	0	0
45	/MHASKAR SHREYA SANJAY	55	0	0
46	/MOKAL SAKSHI RAJENDRA	50	0	0
47	MORDE KUNAL SANTOSH	54	0	0
48	/MORE AARYA SUNIL	72	0	0
49	MULUK BHUSHAN MAHADEV	50	0	0
50	/MUNGLE SAKSH CHANDRASHEKHAR	50	0	0
51	/NIKAM MRUNMAYI HEMANT	56	0	0
52	NIMJE TEJAS SANJAY	50	0	0
53	/PANCHAL SANIKA MURLIDHAR	50	0	0
54	/PANSARE PRIYA BABAJI	60	0	0
55	PATEL PIYUSH DINESH	54	0	0
56	/PATIL PRANALI PANDIT	66	0	0
57	/PATIL PRITI VIJAY	52	0	0
58	PATIL SAURABH MANILAL	51	0	0
59	/PATIL VAISHNAVI SHIVAJI	51	0	0
60	/PATIL YUKTA JAYANT	60	0	0
61	PAWAR KUNAL PRAMOD	60	0	0
62	/RAJPUT SNEHA UDAYSINGH	62	0	0
63	RANADIVE MANAS SANDEEP	51	0	0
64	/RANDHIR VAISHNAVI YOGESH	60	0	0
65	SALUNKE SUSHRUT SHYAMSUNDER	53	0	0
66	SALUNKHE SHUBHAM SUNIL	60	0	0
67	SALVI MANTHAN NILESH	50	0	0
68	SHAH UTKARSH KAMLESH	54	0	0
69	/SHAH YUTIKA KETAN	55	0	0
70	/SHAIKH AFREEN AFZALAHMED	58	0	0
71	SHINDE AKASH VENKATRAO	53	0	0
72	SINGH JOGINDER JAGDISH	54	0	0
73	/SINGHAM ICHCHHA VIJAYENDRA	54	0	0
74	/SURAVKAR KHYATI RAJIV	56	0	0
75	SURVE SANKALP SUNIL	56	0	0
76	SURVE SOHAM SUNIL	5	0	0
77	SUTAR TUSHAR TULSHIRAM	50	0	0
78	SUTKAR NISHANT PRASHANT	51	0	0
79	/TAPARE HARSHADA ANIL	52	0	0
80	THAKUR DARSHAN TUKARAM	50	0	0
81	VAIJULE ANIKET ANIL	58	0	0
82	VORA DARSHEET PARESH	50	0	0
83	/WALUNJ MAYURI SAKHARAM	52	0	0



84	WALUNJ SANDESH DILIP	54	0	0
85	/YADAV RITIKA JITENDRA	50	0	0
86	YADAV VIVEK VIJAYKUMAR	52	0	0
87	/YERNE SIDDHI KISHOR	54	0	0

Total No of Students on roll no.	87		
Total No of Students Present	87	0	0
Average Marks	55	0	0

No of students at and above target level	86	0	0
% of students at and above target level	98.9	0	0.0
Level	3	0	3
Weightage of assesment criteria	100%	0%	0%
	3	0	0
Total Course Attainment	3		

If 40% of students above target score - attainment level 1

If 60% of students above target score - attainment level 2

If 70% of students above target score- attainment level 3

	Max Marks	100		50
1	Distribution of Marks for CO1	10	0	0
2	Distribution of Marks for CO2	25	0	0
3	Distribution of Marks for CO3	25	0	0
4	Distribution of Marks for CO4	40	0	0
5	Distribution of Marks for CO5	0	0	0
6	Distribution of Marks for CO6	0	0	0
	Total	100		0

Percentage attainment at CO level			
	Internal	Jury	End sem
CO1	5.47	0.00	0.00
CO2	13.67	0.00	0.00
CO3	13.67	0.00	0.00
CO4	21.87	0.00	0.00
CO5	0.00	0.00	0.00
CO6	0.00	0.00	0.00



COURSE ASSESSMENT REPORT
Course Outcome

Course Outcome	Indirect Measure	Direct Measure 70%		Jury	End sem	Direct Measurement	Total Attainment
		Internal	External				
% Weightage	30	70		0	0	70	100
CO1	26.71	3.83		0.0	0.0	4	31
CO2	26.00	9.57		0.0	0.0	10	36
CO3	25.43	9.57		0.0	0.0	10	35
CO4	25.14	15.31		0.0	0.0	15	40
CO5	0.00	0.00		0.0	0.0	0	0
CO6	0.00	0.00		0.0	0.0	0	0

Course Outcome	Total Attainment	Program Outcome														
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12			
CO1	31	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1
CO2	36	2	3	3	3	0	0	3	0	0	0	0	0	0	0	0
CO3	35	2	3	2	3	0	0	3	0	0	0	0	0	0	0	0
CO4	40	3	0	3	3	1	0	3	0	0	0	0	0	0	0	2
CO5	0															
CO6	0															
Total Attainment of PO	53.93	45.46	49.67	55.51	6.74	0.00	70.78	0.00	24.50	0.00	0.00	0.00	18.57			
Level of attainment LEVEL 1=0-30, LEVEL 2=30-60, LEVEL 3=60 ONWARDS		2.00	2.00	2.00	1.00	1.00	3.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Indirect Measurement	38.62	34.62	34.05	38.29	0.00	51.64	0.00	17.17	0.00	0.00	12.83	0.00	0.00			
Direct	22.96	16.26	23.44	25.83	3.83	0.00	28.70	0.00	11.00	0.00	0.00	0.00	8.61			

1: Low 2: medium 3: High 0: Not Existing



Program Outcomes	
PO-1	Architectural knowledge : Create architectural solutions by applying knowledge in history, theory, planning, building technology and utilities , structural concepts and professional practice.
PO-2	Problem analysis : Use concepts and principles from specialized fields and allied disciplines into various architectural problems
PO-3	Design/development of solutions: Ability to apply relevant law, codes, charters and standards of Architecture and the built environment in the preparation of design solutions.
PO-4	Conduct investigations of complex problems: Application of research methods including experiments, analysis and interpretation of data and synthesis of information to address architectural problems
PO-5	Modern tool usage: Use of various information and communication technology (ICT) media for architectural solutions, presentations and techniques in design and construction
PO-6	The architect and society: Acquisition of entrepreneurial and business acumen relevant to architectural practice
PO-7	Environment and sustainability: Understanding the principles of sustainability in making architectural decisions that conserve natural and built resources, including culturally important buildings and sites and in the creation of healthy buildings and communities.
PO-8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the architectural professional practice.
PO-9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-10	Communication: Ability to communicate effectively to produce a comprehensive architectural project
PO-11	Project management and finance: Involvement in the management of the construction works and building administration
PO-12	Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change



Mahatma Education Society's

Pillai HOC college of Architecture, Rasayani

Course outcome attainment from End Semester Examination (Exam Paper)

Course - Architectural building construction (503)

Faculty Name- Ar. Aswathy R , Ar. Sandhya M

Academic Year - 2022-23

Semester - V

Odd Semester Exam Question Paper

UNIVERSITY OF MUMBAI
PILLAI HOC COLLEGE OF ARCHITECTURE, RASAYANI
Pillai HOC, Mahatma Education Society, Rasayani, Thane

YEAR: THIRD YEAR B.AECH
SUBJECT: Architectural Building Construction
DATE: 13/10/2022
MAXIMUM MARKS: 50
INSTRUCTIONS:

- 1) Question 1 is compulsory.
- 2) Answer any 4 out of remaining questions.
- 3) Support the answers with neat sketches and label all details.

Illustrate any 3 of the following systems with the required nomenclatures. (10 marks)

- 1) Eccentric Foundations,
- 2) Curtain wall,
- 3) inclined footings
- 4) canopy system
- 5) Foundation walls

Design an 'upstand beam raft' foundation of bay size 6m x 6m by illustrating reinforcement details in both plan and section. (10 marks)

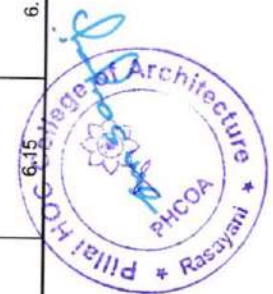
Elaborate the importance of subsoil foundation and illustrate any one system of the same. (10 marks)

Outline the conditions where combined footing can be used. Design a combined footing for two columns (300x350mm) placed at 1.5m c/c considering load of 300kN on each column and permissible SAC as 200 KN/m². (10 marks)

Analyze the different types of building skins in lightweight materials for framed structure and interpret any one type of those in detail with explanatory sketches. (10 marks)

Outline shallow foundations and elaborate various types and conditions where they are used with sketches. (10 marks)

Question No.	Marks	CO1	CO2	CO3	CO4	CO5	CO6
1.1)	3	Students will be able to interpret purpose of foundations and factors affecting the same	Students will be able to differentiate different types of foundations and consider various foundations	Students will be able to outline particular type of foundation system and the need for them	Students will be able to design foundations depending on the parameters	Students will be able to infer use of various canopies and buildign skin based on latest trends and techniques	Students will be able to construct canopy and choose buildign skin
1.2)	3		1	1	1		
1.3)	3		1	1	1	1.5	1.5
1.4)	3					1.5	1.5
1.5)	3		1	1	1		
2	10	2	2	2	4		
3	10	2.5	2.5	5			
4	10	2	2	2	4		
5	10					5	5
6	10	2.5	2.5	5			
Total	65	9	12	17	11	8	8
Out of	50	6.92	9.23	13.08	8.46	6.15	6.15



Mahatma Education Society's								
Pillai HOC college of Architecture, Rasayani								
Course outcome attainment from End Semester Examination (Assignment Mapping)								
Academic Year - 2022-23								
Semester - V								
Sr. No	Assignment Questions	Marks	CO1	CO2	CO3	CO4	CO5	CO6
1	Report 1 - Foundations - Eliaorate on different types of shallow foundations and conditions where they are used	10	5	5				
2	Report 2 - Raft foundation - Elaborate on differnt types of raft foundation and their usage	5	3		2			
3	Report 3 - Buoyant foundation - Interpret buoyancy and conditions where we use byuyant foundation	5	3		2			
4	Report 4 - Cladding - Elaborate on different types of cladding systems used in buildings	5					5	
5	Report 5 - Canopy - Illustrate the use of canopy and elaborate upon various types of canopies and materials used to construct the same	5						5
6	Sheet 1 - Isolated and combined footing - Design foundation system for provided parameters	10			5	5		
7	Sheet 2 - Raft foundation - Design raft foundation for provided conditions.	10			5	5		
Total		50	11	5	14	10	5	5



Sr. No	Name of the student	Assignment No.					Semester - V									
		CO1	CO2	CO1	CO3	CO1	CO3	CO1	CO3	CO4	CO3	CO4	CO3	CO4	CO3	CO4
1	BHAVIHAI CHINMAY BASAVARAJ	2.5	2.5	2	1	1	2.5	1	1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
2	CHIKANE MAYUR RAMCHANDRA	3	3	1.5	1	1.5	3	1	1.5	3	3	3	3	3	3	3
3	/DERE AARYA DATTATRAY	3	3	2	2	2	3	2	2	3	3	3	3	3	3	3
4	/DHAWALE SHRAVANI PRADEEP	3.5	3.5	2	1.5	2.5	2	1.5	2.5	2	3.5	3	3	3	3	3
5	DUKARE HARDIK VINAYAK	3.5	3.5	2.5	1.5	2.5	2	1.5	2.5	2	3.5	4	3.5	3	3.5	3
6	/GAIKWAD PALLAVI PRADEEP	4	4	2	2	2.5	2	2	2.5	4	4	4	4	3	3	3
7	/GHAVATE SAKSHI ASHOK	4	3	3	3	2.5	2	2	1.5	4	4	4	3	3	3	3
8	/GHANGURDE GATAROOSH MADHAV	4	3	2	1	2	2	2	1	3	3	3	3	3	3	3
9	/GHARAT MANSI JITENDRA	4.5	4	2.5	2	2.5	2	2.5	2	4.5	4	3.5	3.5	3	3	4
10	GUHAGARKAR ZAIN NIYAZ	2.5	2.5	2	1	1.5	2	1.5	2	2.5	2	3	2	2	2.5	2.5
11	/HATMODE KALYANI PRADEEP	4.5	4.5	2.5	2	2.5	2	4.5	2	4.5	4	3.5	3.5	3.5	3.5	3.5
12	JADHAV SOHAM VINAYAK	3	3	2.5	1.5	2.5	2	2.5	1	2.5	3	3	2	2.5	2.5	2.5
13	/JAWALE POORNIMA DEVENDRA	4.5	4.5	3	2	2.5	2	2.5	1.5	4	4	4	4	4	4	3
14	/KADAM VEDIKA DHANANJAY	3.5	3	2	1.5	2	1.5	2	1	3.5	3.5	3	2	3	3	3
15	/KADNE ISHA DEEPAK	3	2.5	2	1	1.5	2	1	1	2	2	3	3	3	3	3
16	/KALE AISHWARYA RAMESH	4	3.5	2.5	1.5	2	1.5	4	2	4	4	3	3	2	2	3
17	KHATU HARSH NINAD	3.5	3	2	1	2	1	3.5	2	3.5	3	2.5	2.5	2.5	2.5	2.5
18	KONDRAPPASSERY ANAND RAMESH	3	2	2	1	1	1	2	1	2.5	2.5	3	3	3	3	2
19	KORE JEET SHIVANAND	4	3	2.5	1.5	2.5	2	3	1.5	3.5	3.5	3	3	3	2	2
20	/KSHIRSAGAR BHARGAVI PRASHANT	3	2	1.5	1	2	1	2.5	2	2.5	2	2.5	2.5	2.5	2.5	2.5
21	KULPATI SAKSHAM SATISH	3.5	3.5	2	1.5	2	1	3.5	1	3.5	3	3	3	3	3	3
22	MAHAJAN SHARDUL LALIT	3	3	2	1	2	2	3	2	3	2.5	2.5	3	3	3	2.5
23	/MAHALE LOKESHWARI KISHOR	4	4.5	2.5	2	2	2	4	2	4	4	4	4	4	4	3
24	/MAHATO RASHMI VANIBHUSHAN	4.5	4	2.5	2	2.5	2	4	2.5	4	4	3	3	3	3	3
25	MALVATKAR GAURAV KISHOR	3.5	3	2	1.5	2	1.5	4	2	4	3.5	3	3	3	3	3
26	MANE SHRAVAN PRADEEP	4	3.5	2.5	1.5	2	1.5	4	2	4	4	3	3	3	3	3
27	MAPKAR ABDUL RAHIM ABDUL HAFIZ	4.5	4	2.5	1.5	2.5	2	4	2.5	4	3.5	3	4	4	4	3
28	MHATRE ANURAG SURESH	4	4	2	1.5	2	1.5	4	1.5	4	4	3	3	3	3	3
29	/MHATRE PRANISHA PRAKASH	3.5	3	2	1.5	2.5	2	3	1.5	3	3	3	3	3	3	3
30	MISAL SHRUTEJ SHAILESH	3.5	3.5	2	1.5	2.5	2	3.5	1.5	3.5	3	3	3	3	3	2
31	/MORE MRUDULA AJAY	3	3	2	1	2	2	2.5	1	2.5	2.5	3	3	3	3	2
32	/NAIK SAMRUDDHI DINESH	4	4	2.5	2	2	2	4	2	4	4	4	4	4	4	4
33	/NAIR NANDHANA BABU	3	2.5	1.5	1	2	1	2.5	1	2.5	2.5	2.5	2.5	2.5	2.5	2.5
34	/NALAWADE SAKSHI SANTOSH	3	3	1.5	1	1.5	1	2.5	1	2.5	2.5	3	3	3	3	3
35	/NERKAR DURVA DINESH	3	2.5	1.5	1	1	1	2	1	2	2	3	3	3	3	3
36	/PALKAR PRACHI RAMBHAJI	3	3	2	1	2	1	2.5	1	2.5	2.5	3	3	3	3	3
37	/PANT AKANKSHA VIVEK	3	3	2	1	2	1.5	3	2	3	2.5	2.5	2.5	2.5	2.5	2.5
38	/PARANJAPE KASHMIRA GHANSHYAM	4	3.5	2.5	1.5	2	1.5	4	2	4	4	4	4	3	3	3
39	/PARANJAPE SAIEE HEMANT	3	3	1.5	1	1	1	2.5	1	2.5	2.5	3	3	3	3	3
40	PATIL AKASH DAYANAND	3	3	2.5	1	2.5	1	2.5	1	2.5	2.5	3	3	3	3	3
41	PATIL ASHUTOSH SHAMKANT	3	3	2	2	2	2	2.5	1	2.5	2.5	3	3	3	3	3
42	PATIL DAKSHESH NARENDRA	2.5	2.5	1	1	1.5	1	2.5	1	2.5	2	3	3	3	3	3



Mahatma Education Society's									
Pillai HOC college of Architecture, Rasayani									
Course outcome attainment from End Semester Examination (Indirect Mapping)									
Course - Architectural building construction (503)					Academic Year - 2022-23				
Faculty Name- Ar. Aswathy R , Ar. Sandhya M					Semester - V				
INDIRECT ASSESSMENT REPORT									
COURSE EXIT SURVEY STATISTICS									
Total No. of Students Present for Exit Survey :					46				
Course Objectives	Acceptance Level						%	Out of 30	
	5	4	3	2	1				
C01	5	33	7	0	1		78	23.35	
C02	9	25	7	0	1		73	21.78	
C03	4	30	10	0	0		74	22.17	
C04	1	28	14	3	0		72	21.52	
C05	1	23	19	2	1		69	20.74	
C06	1	20	22	1	2		67	20.22	
							Avg.	22	
Course Outcomes									
C01	Students will be able to interpret purpose of foundations and factors affecting the same								
C02	Students will be able to differentiate different types of foundations and consider various foundations								
C03	Students will be able to outline particular type of foundation system and the need for them								
C04	Students will be able to design foundations depending on the paramters								
C05	Students will be able to infer use of various canopies and buildign skin based on latest trends and techniques								
C06	Students will be able to construct canopy and choose buildign skin								



Mahatma Education Society's				
Pillai HOC college of Architecture, Rasayani				
Course outcome attainment from End Semester Examination (Direct Mapping)				
Course - Architectural building construction (503)			Academic Year - 2022-23	
Faculty Name- Ar. Aswathy R , Ar. Sandhya M			Semester - V	
DIRECT ASSESSMENT REPORT				
Sr. No		Internal	Jury	End sem
		50	0	50
1	BHAVIHAI CHINMAY BASAVARAJ	25	0	22
2	CHIKANE MAYUR RAMCHANDRA	27	0	25
3	/DERE AARYA DATTATRAY	30	0	20
4	/DHAWALE SHRAVANI PRADEEP	33	0	15
5	DUKARE HARDIK VINAYAK	35	0	20
6	/GAIKWAD PALLAVI PRADEEP	37	0	20
7	/GHAVATE SAKSHI ASHOK	35	0	20
8	GHANGURDE GATAROOSH MADHAV	33	0	21
9	/GHARAT MANSI JITENDRA	40	0	22
10	GUHAGARKAR ZAIN NIYAZ	25	0	13
11	/HATMODE KALYANI PRADEEP	40	0	22
12	JADHAV SOHAM VINAYAK	29	0	20
13	/JAWALE POORNIMA DEVENDRA	40	0	20
14	/KADAM VEDIKA DHANANJAY	31	0	16
15	/KADNE ISHA DEEPAK	27	0	21
16	/KALE AISHWARYA RAMESH	34	0	20
17	KHATU HARSH NINAD	29	0	13
18	KONDRAPPASSERY ANAND RAMESH	25	0	16
19	KORE JEET SHIVANAND	33	0	20
20	/KSHIRSAGAR BHARGAVI PRASHANT	25	0	20
21	KULPATI SAKSHAM SATISH	32	0	20
22	MAHAJAN SHARDUL LALIT	28	0	20
23	/MAHALE LOKESHWARI KISHOR	40	0	27
24	/MAHATO RASHMI VANIBHUSHAN	37	0	21
25	MALVATKAR GAURAV KISHOR	33	0	20
26	MANE SHRAVAN PRADEEP	35	0	20
27	MAPKAR ABDUL RAHIM ABDUL HAFIZ	38	0	24
28	MHATRE ANURAG SURESH	38	0	20
29	/MHATRE PRANISHA PRAKASH	32	0	20
30	MISAL SHRITESH SHAIKESH	33	0	21
31	/MORE MRUDULA AJAY	27	0	20
32	/NAIK SAMRUDDHI DINESH	40	0	23
33	/NAIR NANDHANA BABU	25	0	22
34	/NALAWADE SAKSHI SANTOSH	28	0	28
35	/NERKAR DURVA DINESH	26	0	20
36	/PALKAR PRACHI RAMHAJI	26	0	22
37	/PANT AKANKSHA VIVEK	28	0	27
38	/PARANJAPE KASHMIRA GHANSHYAM	36	0	22
39	/PARANJAPE SAIIEE HEMANT	28	0	20
40	PATIL AKASH DAYANAND	30	0	23
41	PATIL ASHUTOSH SHAMKANT	33	0	20



42	PATIL DAKSHESH NARENDRA	26	0	26
43	/PATIL KIRAN JAGDISH	37	0	28
44	/PATIL RASHMI KISHOR	33	0	32
45	/PATIL SAKSHI RAJESH	32	0	24
46	PATIL SARVESH SANJAY	30	0	15
47	/PATIL SAYALI PANDURANG	30	0	25
48	/PATIL SEJAL RATNAKAR	31	0	28
49	/PATIL SHRUTI BHAGWAN	35	0	20
50	/PATIL SONIYA SUJIT	35	0	24
51	/PATIL SWATI DIPAK	32	0	20
52	/PATIL TANVI NITIN	33	0	33
53	PATIL VIRAJ PARSHURAM	26	0	20
54	/PAWAR PRAGATI VIKAS	35	0	30
55	/POWAR SNEHA RAJIV	28	0	24
56	SAGALGILE PIYANSH SUDHIR	25	0	15
57	SARDAL PRAPHULL PRAKASH	5	0	AB
58	SHAH JASH VINOD	38	0	22
59	/SHELAR PRITEE DILIP	26	0	25
60	/SHINDE AARYA MADAN	35	0	23
61	SHINDE SUMEDH KAMALAKAR	27	0	11
62	/SONAR SHRUTI RAMESH	33	0	24
63	/TAMBE SAMIDHA MOHAN	30	0	25
64	/TANDEL ADITI RAVINDRA	25	0	23
65	THAKUR PARESH VINAY	35	0	20
66	/THAKUR PURVA ATMARAM	38	0	23
67	THAKUR UJJWAL SHYAM	28	0	20
68	THOMBARE SWARAJ RAJENDRA	40	0	25
69	THORAT ADITYA DIPAK	28	0	22
70	TULANKAR DEVANSHU ASHOK	32	0	23
71	/VARMA POOJA ASHOKKUMAR	31	0	20
72	VASKAR PRANAY SHARAD	38	0	24
73	/VISHE RUTUJA NAVNATH	30	0	25
74	/WADE SHRAVANI KISHOR	32	0	20
75	WAGHCHOURE SIRIN YAKOB	25	0	21
76	WALANJ AVANTIKA MILIND	25	0	22
77	ZUNJARRAO SAMARTH NARESH	32	0	21

Total No of Students on roll no.	77		
Total No of Students Present	77	0	76
Average Marks	63	0	43
No of students at and above target level	76	0	68
% of students at and above target level	98.7	0	89.5
Level	3	0	3
Weightage of assesment criteria	50%	0%	50%
	1.5	0	1.5
Total Course Attainment	3		
Target score (internal)	25	Target score (end sem)	20



If 40% of students above target score - attainment level 1
 If 60% of students above target score - attainment level 2
 If 70% of students above target score- attainment level 3

	Max Marks	50		50
1	Distribution of Marks for CO1	11.00	0	6.92
2	Distribution of Marks for CO2	5.00	0	9.23
3	Distribution of Marks for CO3	14.00	0	13.08
4	Distribution of Marks for CO4	10.00	0	8.46
5	Distribution of Marks for CO5	5.00	0	6.15
6	Distribution of Marks for CO6	5.00	0	6.15
	Total	50		50

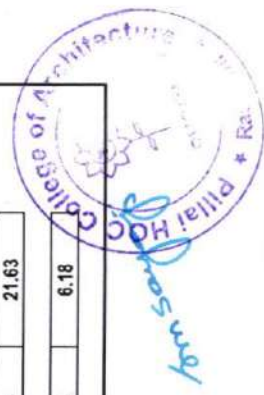
Percentage attainment at CO level			
	Internal	Jury	End sem
CO1	14.68	0.00	6.01
CO2	6.32	0.00	8.01
CO3	17.40	0.00	11.35
CO4	11.82	0.00	7.34
CO5	6.34	0.00	5.34
CO6	5.96	0.00	5.34



Mahatma Education Society's	
Pillai HOC college of Architecture, Rasayani	
Course outcome attainment from End Semester Examination (Course Assessment Report)	
Course - Architectural building construction (503)	Academic Year - 2022-23
Faculty Name- Ar. Aswathy R , Ar. Sandhya M	Semester - V

Course	Course Outcome						Total
	Indirect		Direct		Total		
	Internal	Jury	End sem	Direct Measurement	Total	Total	
% Weightage	30	35	0	35	70	100	
CO1	23.35	5.14	0.0	2.1	7	31	
CO2	21.78	2.21	0.0	2.8	5	27	
CO3	22.17	6.09	0.0	4.0	10	32	
CO4	21.52	4.14	0.0	2.6	7	28	
CO5	20.74	2.22	0.0	1.9	4	25	
CO6	20.22	2.09	0.0	1.9	4	24	

Course Outcome	Total Attainment	Program Outcome												
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	31	3	2	1	1	1	0	0	0	0	0	0	0	1
CO2	27	2	2	1	1	0	0	2	0	0	1	0	0	1
CO3	32	2	2	2	3	2	0	1	0	1	2	0	0	1
CO4	28	3	3	3	3	2	0	1	0	1	2	1	1	1
CO5	25	2	2	2	3	3	0	2	1	2	2	0	0	1
CO6	24	3	3	3	3	3	0	2	1	2	2	1	1	1
Total Attainment of PO	69.45	64.35	54.79	64.30	49.75	0.00	35.34	8.17	30.88	45.42	8.73	27.81		
Level of attainment														
LEVEL 1=0-30,														
LEVEL 2= 30-60,														
LEVEL 3 =60 ONWARDS	3.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	1.00	
Indirect Measurement	54.11	50.22	42.70	49.85	0.00	28.20	6.83	24.57	35.48	6.96	21.63			
Direct	15.34	14.13	12.09	14.45	0.00	7.15	1.34	6.31	9.94	1.78	6.18			
1: Low 2: medium 3: High 0: Not Existing														



Program Outcomes	
PO-1	Architectural knowledge : Create architectural solutions by applying knowledge in history, theory, planning, building technology and utilities , structural concepts and professional practice.
PO-2	Problem analysis : Use concepts and principles from specialized fields and allied disciplines into various architectural problems
PO-3	Design/development of solutions: Ability to apply relevant law, codes, charters and standards of Architecture and the built environment in the preparation of design solutions.
PO-4	Conduct investigations of complex problems: Application of research methods including experiments, analysis and interpretation of data and synthesis of information to address architectural problems
PO-5	Modern tool usage: Use of various information and communication technology (ICT) media for architectural solutions, presentations and techniques in design and construction
PO-6	The architect and society: Acquisition of entrepreneurial and business acumen relevant to architectural practice
PO-7	Environment and sustainability: Understanding the principles of sustainability in making architectural decisions that conserve natural and built resources, including culturally important buildings and sites and in the creation of healthy buildings and communities.
PO-8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the architectural professional practice.
PO-9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-10	Communication: Ability to communicate effectively to produce a comprehensive architectural project
PO-11	Project management and finance: Involvement in the management of the construction works and building administration
PO-12	Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change



Mahatma Education Society's	
Pillai HOC college of Architecture, Rasayani	
Course outcome attainment from End Semester Examination (Exam Paper)	
Course - Architectural Building Services (908)	Academic Year - 2022-23
Faculty Name- Ar. Abhishek Chakraborty	Semester - IX

Sr. No	Assignment Questions	Marks	CO1	CO2	CO3	CO4	CO5	CO6
1	Report 1 - Book/internet case study of service core design of any one tall office building		Students will be able to summarize building management systems and service core designs in buildings	Students will be able to interpret MEP services in hotel/commercial I kitchens through an expert session with help of real case examples of projects	Students will be able to outline various integrated MEP services in a commercial building with case study of a live project	Students will be able to create integrated MEP services layouts requirements and sizes of UGT, OHT, RWHT, HVAC, fire fighting layouts, etc. for a design project from previous semester		
2	Report 2 - Summary of learnings from the guest lecture by industry expert Architect Krishna Dakshinkar from K Studio, Thane		10	5				
3	Group Case Study & Presentation - Live group case study of any commercial/office building to understand, document and outline the various building services in the building.				10			
4	Sheets - Design services layouts for plumbing (water supply and sewage disposal), Electrical, rain water harvesting, solar and fire fighting for a previous semester AD project					25		
Total		50	10	5	10	25		



Mahatma Education Society's

Pillai HOC college of Architecture, Rasayani

Course - Architectural Building Services (908)

Course outcome attainment from End Semester Examination (Assignment Mapping)

Academic Year - 2022-23

Faculty Name- Ar. Abhishek Chakraborty

Semester - IX

Sr. No	Name of the student	Assignment No.			
		1	2	3	4
		CO1	CO2	CO3	CO4
		10	5	10	25
1	/ACHARYA SIDDHI RAJAN	8	2	6	12
2	/ACHARYA TRISHA HARISH	7	2	7	9
3	/ARABEKAR SAMIKSHA PRAVIN	5	2.5	5.5	12
4	/BHALEKAR DEEPTI SUDESH	7	3	6	13
5	/BHOIR AISHWARYA EKNATH	6	2.5	7.5	11
6	/BHOIR PRADNYA LILADHAR	7	2	6	10
7	/BIRJE RIYA PRASAD	8	2	5	15
8	CHAUDHARI NIKHIL SUNIL	5	3	6	11
9	CHOUDHARY NITESH VALARAM	8	2	5	16
10	/CHOURE CHANCHAL DADAHARI	7	3	6	10
11	DALVI PRATIK SHANKAR	5	3	6	12
12	/DBRITTO PRACHI VICTOR	6	2	5	14
13	DESAI SHUBHAM PRAKASH	5	2	7	11



14	DESALE HARSHAL ANIL	31	8	2.5	7	13.5
15	/DEHPANDE PRANITA PRASAD	27	6	2	6	13
16	/DHUMAL SHRADDHA RAVINDRA	25	5	2	5	13
17	DSOUZA GRATUS MININ	25	7	3	6	9
18	/FERNANDES SARA MICHAEL	32	8	2	6	16
19	GAIKWAD NISHANT RAJARAM	25	5	2	6	12
20	GANDHE HRITHIK NILESH	29	6	3	5	15
21	/GAONKAR MRUDULA BHARGAV	32	7	4	8	13
22	/GOHIL ADITI AMRISH	28	6	2	7	13
23	GORIWALE KETAN TUKARAM	35	8	4	8	15
24	/GUJAR SHRISHA SANJAY	25	5	2	5	13
25	HUDDAR SHUBHAM CHANDRAKANT	27	6	2	4	15
26	JADHAV ADITYA NITIN	32	7	4	7	14
27	JADHAV NISHANT HARI	25	7	2	6	10
28	JAGE NISHANT JAYPRAKASH	32	8	4	7	13
29	JAISWAL ABHISHEK PREMKUMAR	29	6	2	6	15
30	JALVI AKSHAY GANGARAM	25	6	2	7	10
31	/JOGI SAYALI ABHINAY	29	7	2	7	13
32	JOSHI RUTWIK HARSHADBHAI	32	8	4	7	13
33	KARKHILE SHRITEJ SUDAM	25	5	2	7	11
34	/KERKAR TANIKA SUNIL	28	7	2	7	12
35	KHOCHRE SAHIL SANDESH	26	8	2	5	11
36	/KOLEKAR SNEHAL HINDURAO	27	5	2	5	15



37	KUTE SANDEEP SAMPAT	25	5	2	4	14
38	MADHAVI SIDDHANT SUDDHIR	27	4	2	6	15
39	MAHADIK SIDDHANT PRAVIN	25	6	2	5	12
40	MAHAJAN VEDANT VAIBHAV	27	5	3	5	14
41	/MALI MINAL ARUN	28	7	2	6	13
42	/MANDAVKAR SALONI MINESH	28	6	2	7	13
43	MAPKAR ZAID IFTIKHAR	29	7	2	6	14
44	/MARIAM AQSA VARGHESE	25	4	2	5	14
45	/MHASKAR SHREYA SANJAY	31	8	2	6	15
46	/MOKAL SAKSHI RAJENDRA	25	6	2	6	11
47	MORDE KUNAL SANTOSH	26	6	2	5	13
48	/MORE AARYA SUNIL	36	7	2	8	19
49	MULUK BHUSHAN MAHADEV	25	6	2	6	11
50	/MUNGLA SAKSH CHANDRASHEKHAR	30	7	2	6	15
51	/NIKAM MRUNMAYI HEMANT	26	5	2	5	14
52	NIMJE TEJAS SANJAY	28	6	1.5	5.5	15
53	/PANCHAL SANIKA MURLIDHAR	28	8	2	6.5	11.5
54	/PANSARE PRIYA BABAJI	29	7	2	7	13
55	PATEL PIYUSH DINESH	25	6	2	7	10
56	/PATIL PRANALI PANDIT	31	8	2	8	13
57	/PATIL PRITI VIJAY	25	8	2	5	10
58	PATIL SAURABH MANILAL	25	7	2	4	12
59	/PATIL VAISHNAVI SHIVAJI	26	8	2	6	10



60	/PATIL YUKTA JAYANT	28	7	2	7	12
61	PAWAR KUNAL PRAMOD	25	6	2	6	11
62	/RAJPUT SNEHA UDAYSINGH	35	8	3	8	16
63	RANADIVE MANAS SANDEEP	28	7	3	7	11
64	/RANDHIR VAISHNAVI YOGESH	35	7	3	8	17
65	SALUNKE SUSHRUT SHYAMSUNDER	28	5	4	8	11
66	SALUNKHE SHUBHAM SUNIL	28	6	3	6	13
67	SALVI MANTHAN NILESH	27	6	3	6	12
68	SHAH UTKARSH KAMLESH	25	5	3	6	11
69	/SHAH YUTIKA KETAN	30	5	3	7	15
70	/SHAIKH AFREEN AFZALAHMED	29	6	3	7	13
71	SHINDE AKASH VENKATRAO	29	7	3	7	12
72	SINGH JOGINDER JAGDISH	26	6	3	6	11
73	/SINGHAM ICHCHHA VIJAYENDRA	34	8	3	8	15
74	/SURAVKAR KHYATI RAJIV	25	7	3	5	12
75	SURVE SANKALP SUNIL	25	6	2	7	10
76	SURVE SOHAM SUNIL	26	6	3	6	11
77	SUTAR TUSHAR TULSHIRAM	25	5	3	5	12
78	SUTKAR NISHANT PRASHANT	25	6	2	7	10
79	/TAPARE HARSHADA ANIL	27	6	2	7	12
80	THAKUR DARSHAN TUKARAM	25	5	1.5	5.5	13
81	VAIJULE ANIKET ANIL	31	7	4	5	15
82	VORA DARSHEET PARESH	25	5	3	6	11



83	/WALUNJ MAYURI SAKHARAM	29	7	3	5	14
84	WALUNJ SANDESH DILIP	26	7	2	5	12
85	/YADAV RITIKA JITENDRA	25	6	2	6	11
86	YADAV VIVEK VIJAYKUMAR	25	7	2	7	11
87	/YERNE SIDDHI KISHOR	25	6	2	5	12
Average		6	2	2	6	13

	Out of 50	Out of 100
C01	6	13
C02	2	5
C03	6	12
C04	13	25



Mahatma Education Society's				
Pillai HOC college of Architecture, Rasayani				
Course outcome attainment from End Semester Examination (Direct Mapping)				
Course - Architectural Building Services (908)			Academic Year - 2022-23	
Faculty Name- Ar. Abhishek Chakraborty			Semester - IX	
DIRECT ASSESSMENT REPORT				
Sr. No		Internal	Jury	End sem
1	/ACHARYA SIDDHI RAJAN	50	0	0
2	/ACHARYA TRISHA HARISH	28	0	0
3	/ARABEKAR SAMIKSHA PRAVIN	25	0	0
4	/BHAIKAR DEEPTI SUDESH	25	0	0
5	/BHOIR AISHWARYA EKNATH	29	0	0
6	/BHOIR PRADNYA LILADHAR	27	0	0
7	/BIRJE RIYA PRASAD	30	0	0
8	CHAUDHARI NIKHIL SUNIL	30	0	0
9	CHOUHARY NITESH VALARAM	25	0	0
10	/CHOURE CHANCHAL DADAHARI	31	0	0
11	DALVI PRATIK SHANKAR	25	0	0
12	/DBRITTO PRACHI VICTOR	26	0	0
13	DESAI SHUBHAM PRAKASH	27	0	0
14	DESALE HARSHAL ANIL	25	0	0
15	/DESHPANDE PRANITA PRASAD	31	0	0
16	/DHUMAL SHRADDHA RAVINDRA	27	0	0
17	DSOUZA GRATUS MININ	25	0	0
18	/FERNANDES SARA MICHAEL	25	0	0
19	GAIKWAD NISHANT RAJARAM	32	0	0
20	GANDHE HRITHIK NILESH	25	0	0
21	/GAONKAR MRUDULA BHARGAV	29	0	0
22	/GOHIL ADITI AMRISH	32	0	0
23	GORIWALE KETAN TUKARAM	28	0	0
24	/GUJAR SHRISHA SANJAY	35	0	0
25	HUDDAR SHUBHAM CHANDRAKANT	25	0	0
26	JADHAV ADITYA NITIN	27	0	0
27	JADHAV NISHANT HARI	32	0	0
28	JAGE NISHANT JAYPRAKASH	25	0	0
29	JAISWAL ABHISHEK PREMKUMAR	32	0	0
30	JALVI AKSHAY GANGARAM	29	0	0
31	/JOGI SAYALI ABHINAY	25	0	0
32	JOSHI RUTWIK HARSHADBHAI	29	0	0
33	KARKHILE SHRITEJ SUDAM	32	0	0
34	/KERKAR TANIKA SUNIL	25	0	0
35	KHOCHRE SAHIL SANDESH	28	0	0
36	/KOLEKAR SNEHAL HINDURAO	26	0	0
37	KUTE SANDEEP SAMPAT	27	0	0
38	MADHAVI SIDDHANT SUDHIR	25	0	0
39	MAHADIK SIDDHANT PRAVIN	27	0	0
40	MAHAJAN VEDANT VAIBHAV	25	0	0
41	/MALI MINAL ARUN	27	0	0
42	/MANDAVKAR SALONI MINESH	28	0	0
43	MAPKAR ZAID IFTIKHAR	28	0	0
44	/MARIAM AQSA VARGHESE	29	0	0
		25	0	0



45	/MHASKAR SHREYA SANJAY	31	0	0
46	/MOKAL SAKSHI RAJENDRA	25	0	0
47	MORDE KUNAL SANTOSH	26	0	0
48	/MORE AARYA SUNIL	36	0	0
49	MULUK BHUSHAN MAHADEV	25	0	0
50	/MUNGLE SAKSH CHANDRASHEKHAR	30	0	0
51	/NIKAM MRUNMAYI HEMANT	26	0	0
52	NIMJE TEJAS SANJAY	28	0	0
53	/PANCHAL SANIKA MURLIDHAR	28	0	0
54	/PANSARE PRIYA BABAJI	29	0	0
55	PATEL PIYUSH DINESH	25	0	0
56	/PATIL PRANALI PANDIT	31	0	0
57	/PATIL PRITI VIJAY	25	0	0
58	PATIL SAURABH MANILAL	25	0	0
59	/PATIL VAISHNAVI SHIVAJI	26	0	0
60	/PATIL YUKTA JAYANT	28	0	0
61	PAWAR KUNAL PRAMOD	25	0	0
62	/RAJPUT SNEHA UDAYSINGH	35	0	0
63	RANADIVE MANAS SANDEEP	28	0	0
64	/RANDHIR VAISHNAVI YOGESH	35	0	0
65	SALUNKE SUSHRUT SHYAMSUNDER	28	0	0
66	SALUNKHE SHUBHAM SUNIL	28	0	0
67	SALVI MANTHAN NILESH	27	0	0
68	SHAH UTKARSH KAMLESH	25	0	0
69	/SHAH YUTIKA KETAN	30	0	0
70	/SHAIKH AFREEN AFZALAHMED	29	0	0
71	SHINDE AKASH VENKATRAO	29	0	0
72	SINGH JOGINDER JAGDISH	26	0	0
73	/SINGHAM ICHCHHA VIJAYENDRA	34	0	0
74	/SURAVKAR KHYATI RAJIV	25	0	0
75	SURVE SANKALP SUNIL	25	0	0
76	SURVE SOHAM SUNIL	26	0	0
77	SUTAR TUSHAR TULSHIRAM	25	0	0
78	SUTKAR NISHANT PRASHANT	25	0	0
79	/TAPARE HARSHADA ANIL	27	0	0
80	THAKUR DARSHAN TUKARAM	25	0	0
81	VAIJULE ANIKET ANIL	31	0	0
82	VORA DARSHEET PARESH	25	0	0
83	/WALUNJ MAYURI SAKHARAM	29	0	0
84	WALUNJ SANDESH DILIP	26	0	0
85	/YADAV RITIKA JITENDRA	25	0	0
86	YADAV VIVEK VIJAYKUMAR	25	0	0
87	/YERNE SIDDHI KISHOR	25	0	0



Mahatma Education Society's	
Pillai HOC college of Architecture, Rasayani	
Course outcome attainment from End Semester Examination (Indirect Mapping)	
Course - Architectural Building Services (908)	Academic Year - 2022-23
Faculty Name- Ar. Abhishek Chakraborty	Semester - IX

INDIRECT ASSESSMENT REPORT						
COURSE EXIT SURVEY STATISTICS						
Total No. of Students Present for Exit Survey :						46
Course Objectives	Acceptance Level					Out of 30
	5	4	3	2	1	
CO1	11	29	2	2	2	80
CO2	13	24	7	0	2	80
CO3	12	25	8	1	0	81
CO4	10	33	0	3	0	82
CO5	0	0	0	0	0	0
CO6	0	0	0	0	0	0
						Avg.
						16

Course Outcomes	
CO1	Summarize building management systems and service core designs for regular and automated services systems in buildings
CO2	Implement MEP services in hotel/commercial kitchens in their architecture design project through an expert session with help of real case examples of projects
CO3	Outline various integrated MEP services in a commercial building with case study of a live project
CO4	Create integrated MEP services layouts requirements and sizes of UGT, OHT, RWHT, HVAC, fire fighting layouts, etc. for a design project from previous semester



Total No of Students on roll no.	87		0
Total No of Students Present	87	0	0
Average Marks	85	0	0
No of students at and above target level	80	0	0
% of students at and above target level	92.0	0	0.0
Level	3	0	3
Weightage of assesment criteria	100%	0%	0%
	3	0	0
Total Course Attainment	3		
Target score (internal)			
25			
If 40% of students above target score - attainment level 1			
If 60% of students above target score - attainment level 2			
If 70% of students above target score- attainment level 3			

	Max Marks	50		50
1	Distribution of Marks for CO1	10	0	0
2	Distribution of Marks for CO2	5	0	0
3	Distribution of Marks for CO3	10	0	0
4	Distribution of Marks for CO4	25	0	0
5	Distribution of Marks for CO5	-	-	-
6	Distribution of Marks for CO6	-	-	-
	Total	50		0

Percentage attainment at CO level			
	Internal	Jury	End sem
CO1	13	0.00	0.00
CO2	5	0.00	0.00
CO3	12	0.00	0.00
CO4	25	0.00	0.00
CO5	0.00	0.00	0.00
CO6	0.00	0.00	0.00



Mahatma Education Society's
Pillai HOC college of Architecture, Rasayani
Course outcome attainment from End Semester Examination (Course Assessment Report)
Academic Year - 2022-23
Semester - IX

COURSE ASSESSMENT REPORT
Course Outcome

Course Outcome	Indirect Measure	Direct Measure 70%		Jury	End sem	Direct Measurement	Total Attainment
		Internal	External				
% Weightage	30	70	0	0	0	70	100
CO1	23.87	7	0.0	0.0	0.0	7	31
CO2	24.00	4	0.0	0.0	0.0	4	28
CO3	24.26	7	0.0	0.0	0.0	7	31
CO4	24.52	18	0.0	0.0	0.0	18	42
CO5	0.00	0	0.0	0.0	0.0	0	0
CO6	0.00	0	0.0	0.0	0.0	0	0

Course Outcome	Total Attainment	Program Outcome												
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
CO1	31	2	3	0	2	1	0	1	3	0	1	0	0	0
CO2	28	3	3	0	0	0	0	0	2	0	0	0	0	0
CO3	31	2	3	0	2	1	0	1	3	3	3	0	0	0
CO4	42	3	3	3	0	3	0	1	3	0	3	0	0	0
CO5	0													
CO6	0													

Total Attainment of PO		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
55.47	65.83	21.01	20.71	31.37	0.00	17.36	61.24	15.63	41.79	0.00	0.00	0.00	0.00

Level of attainment
LEVEL 1=0-30,
LEVEL 2= 30-60, LEVEL 3 =60 ONWARDS
Indirect Measurement 2.00 3.00 48.33 1.00 1.00 1.00 2.00 3.00 1.00 2.00 1.00 1.00 1.00
40.30 12.26 16.04 44.33 28.37 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Direct 15.17 17.50 8.75 4.67 16.92 5.25 13.42 3.50 13.42 0.00 0.00 0.00 0.00
1: Low 2: medium 3: High 0: Not Existing



Program Outcomes	
PO-1	Architectural knowledge : Create architectural solutions by applying knowledge in history, theory, planning, building technology and utilities , structural concepts and professional practice.
PO-2	Problem analysis : Use concepts and principles from specialized fields and allied disciplines into various architectural problems
PO-3	Design/development of solutions: Ability to apply relevant law, codes, charters and standards of Architecture and the built environment in the preparation of design solutions.
PO-4	Conduct investigations of complex problems: Application of research methods including experiments, analysis and interpretation of data and synthesis of information to address architectural problems
PO-5	Modern tool usage: Use of various information and communication technology (ICT) media for architectural solutions, presentations and techniques in design and construction
PO-6	The architect and society: Acquisition of entrepreneurial and business acumen relevant to architectural practice
PO-7	Environment and sustainability: Understanding the principles of sustainability in making architectural decisions that conserve natural and built resources, including culturally important buildings and sites and in the creation of healthy buildings and communities.
PO-8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the architectural professional practice.
PO-9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO-10	Communication: Ability to communicate effectively to produce a comprehensive architectural project
PO-11	Project management and finance: Involvement in the management of the construction works and building administration
PO-12	Life-long learning: Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change

