



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

Criterion 2- Teaching Learning Evaluation

Key Indicator 2.6 – Student Performance and Learning Outcomes

2.6.2





Pillai

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Criterion 2- Teaching Learning Evaluation

Key Indicator 2.6 – Evaluation Process and Reforms

2.6.2: Attainment of Programme outcomes and course outcomes are evaluated by the Institution

Sr. No.	Contents (Documents)
Year	2023- 2024
1	Description
2	Sample CO PO Mapping for Semester 4 ABCM
3	Sample CO PO Mapping for Semester 9 ABS



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2.6.2: Attainment of Programme outcomes and course outcomes are evaluated by the institution

1. Description

At the end of each semester, the faculty conducts mapping and scoring of Course Outcomes to evaluate and objectively determine whether their lesson plans are well-matched to the desired Programme Outcomes.

CO Attainment

First, attainment of Course Outcomes is assessed in two perspectives. Direct assessment consists of a review of objective measures including examination results, quiz scores and other internal marks, end term marks, studio projects, assessment tests, assignments, and examination results.

Indirect assessment uses subjective measures, based largely on a course exit survey completed by students, who grade each defined Course Outcome on their level of understanding.

These are mapped together, giving the direct assessment 70% of the final score, and the indirect 30%, to determine a final attainment score for each Course Outcome.

Following steps are used to evaluate the levels of CO-PO attainment:

1. Defined Programme Outcomes
2. Define/Obtain Course Outcomes
3. CO measurement through assessment.
4. Obtain CO attainment table through direct and indirect assessment methods.
5. Mapping of Course Outcomes with Programme Outcomes.
6. Obtain the final PO attainment table

PO Attainment

The PO attainment is done where all the Course Outcomes are mapped with the program outcomes to achieve the final level of attainment.

Mahatma Education Society's								
Pillai HOC college of Architecture, Rasayani								
Course outcome attainment from End Semester Examination (Assignment Mapping)								
Academic Year - 2023-24								
Semester - IV								
Course - Architectural building construction and material 403								
Faculty Name - Ar. Abhishek C, Ar. Amrut D, Ar. Amit K, Ar. Pooja H								
Sr.No	Assignment Questions	Marks	CO1	CO2	CO3	CO4	CO5	CO6
1	Report and model - studying steel structure and connections of railway stations	10	Students will be able to summarize properties, characteristics and various application of steel as a construction material	Students will be able to design foundation plan, floor plans, and structural column layout for a warehouse building in steel	Students will be able to create construction details for various connections of steel column with RCC pad footing, steel column splicing, steel beam to column and beam to beam connections for the warehouse building	Students will be able to create construction details for various parts/connection s of steel deck floor for the warehouse building	Students will be able to create construction details for various parts/connection s of steel truss roof for the warehouse building	Students will be able to create construction details for various parts/connection s of steel staircase for the warehouse building
2	Sheet - draw floor plan, roof plan, sections of a warehouse in structural steel showing all building and structural elements	10		10				
3	Sheet - steel I section and concrete pad footing and grillage foundation	5			5			
4	Sheet - steel stanchions with splicing details	5			5			
5	Sheet - steel girders with joinery details at 'L', 'T' junctions	5			5			
6	Sheet - steel deck slab	5				5		
7	Sheet - steel roof truss	5					5	
8	Sheet - steel staircase	5						5
Total		50	10	10	15	5	5	5

Pillai HOC college of Architecture, Rasayani										
Course outcome attainment from End Semester Examination (Assignment Mapping)										
Academic Year - 2023-24										
Semester - IV										
Course - Architectural Building Construction and Material 403										
Faculty Name - Ar. Abhishek C, Ar. Amrut D, Ar. Amit K, Ar. Pooja H										
Sr. No	Name of the student	Assignment								
		Internal No.	CO1	CO2	CO3	CO4	CO5	CO6		
1	AISHWARYA SRIVASTAVA	50	10	10	15	5	5	5	5	5
2	AMBAVANE AARYAN GANESH	35	4	5	15	4	3	3	5	5
3	BANDGAR SHRUTI APPASAHEB	10	1	1	4	1	1	1	1	1
4	BHANUSKAR MANAS JAGDISH	32	4	4	13	4	3	3	4	4
5	BHOPIVARAD DINESH	29	3	4	12	3	3	3	4	4
6	BHICKAR ARYAN AVADHUT	36	4	5	15	4	3	3	5	5
7	CHAVAN SHRAVANI PRAKASH	16	2	2	7	2	1	1	2	2
8	DODIYA HIMANSHI BHARAT	14	2	2	6	2	1	1	2	2
9	GADE MONISH SANJAY	39	4	5	16	5	4	4	5	5
10	GAIKWAD SAKSHI SACHIN	17	2	2	7	2	2	2	2	2
11	GHARAL VIVEK KASHINATH	31	3	4	13	4	3	3	4	4
12	GHARAT ABHIJEET PRAKASH	8	1	1	3	1	1	1	1	1
13	GHARAT LAVANYA SHEKHAR	7	1	1	3	1	1	1	1	1
14	HARSHI GUPTA	36	4	5	15	4	3	3	5	5
15	KAMBLE PRANITA JAYAWANT	35	4	5	15	4	3	3	5	5
16	KANDJI ANJALI MUKESH	32	4	4	13	4	3	3	4	4
17	KARAVALE ISHAN SUDHIR	32	4	4	13	4	3	3	4	4
18	KHAIRE VIGNESH KAILAS	36	4	5	15	4	3	3	5	5
19	KOLIMITALI SANJAY	34	4	4	14	4	3	3	4	4
20	KURADE VAIBHAVI BAPU	28	3	4	12	3	3	3	4	4
21	MHATRE A DARSH GOVIND	6	1	1	3	1	1	1	1	1
22	MHATRE NEHA ARUN	37	4	5	16	4	3	3	5	5
23	MHATRE RAJ KISHOR	37	4	5	16	4	3	3	5	5
24	MOKAL KOMAL GAJANAN	5	1	1	2	1	0	0	1	1
25	NAIK PRACHI JIVAN	33	4	4	14	4	3	3	4	4
26	NALAWADE TANVI HEMANT	34	4	4	14	4	3	3	4	4
27	PATIL AMEY BHAGYODAY	8	1	1	3	1	1	1	1	1
28	PATIL ATHARVA SAMBHAJI	8	1	1	3	1	1	1	1	1
29	PATIL MAHESH MOHAN	29	3	4	12	3	3	3	4	4
30	PATIL SAYALI SANTOSH	20	2	3	8	2	2	2	3	3
31	PATIL TANISHKA SANTOSH	29	3	4	12	3	3	3	4	4
32	PHATAK ADITI RAJESH	35	4	5	15	4	3	3	5	5
33	POSAM ISHA MAHENDRA	28	3	4	12	3	3	3	4	4
34	SALUNKHE SAHIL DINESH	8	1	1	3	1	1	1	1	1
35	SALVI ADEE AJAY	13	1	2	5	2	1	1	2	2
36	SATYAM KUMAR JHA	8	1	1	3	1	1	1	1	1
37	SHRIVASTAV AADARSH ANIL	12	1	2	5	1	1	1	2	2
38	SUPEKAR RASHI RAHUL	35	4	5	15	4	3	3	5	5
39	TAVLE ADITYA VIJAY	8	1	1	3	1	1	1	1	1

40	VARADKAR VARAD GURUDATTA	37	4	5	16	4	3	5
41	VISHWASRAO SAKSHI GAHININATH	37	4	5	16	4	3	5

	Out of 50	Out of 100
CO1	3	5
CO2	3	6
CO3	10	21
CO4	3	6
CO5	2	4
CO6	2	4

Mahatma Education Society's				
Pillai HOC college of Architecture, Rasayani				
Course outcome attainment from End Semester Examination (Direct Mapping)				
Course - Architectural Building Construction and Material 403			Academic Year - 2023-24	
Faculty Name- Ar. Abhishek C, Ar. Amrut D, Ar. Amit K, Ar. Pooja H			Semester - IV	
DIRECT ASSESSMENT REPORT				
Sr. No	Name of Student	Internal 50	Jury 50	End sem 50
1	AISHWARYA SRIVASTAVA	35		31
2	AMBAVANE AARYAN GANESH	10		8
3	BANDGAR SHRUTI APPASAHEB	32		22
4	BHANUSKAR MANAS JAGDISH	29		13
5	BHOPI VARAD DINESH	36		29
6	BICKAR ARYAN AVADHUT	16		14
7	CHAVAN SHRAVANI PRAKASH	14		13
8	DODIYA HIMANSHI BHARAT	39		31
9	GADE MONISH SANJAY	17		15
10	GAIKWAD SAKSHI SACHIN	31		20
11	GHALAL VIVEK KASHINATH	8		7
12	GHARAT ABHIJEET PRAKASH	7		9
13	GHARAT LAVANYA SHEKHAR	36		33
14	HARSHI GUPTA	35		27
15	KAMBLE PRANITA JAYAWANT	32		31
16	KANOJI ANJALI MUKESH	32		25
17	KARVALE ISHAN SUDHIR	36		30
18	KHAIRE VIGNESH KAILAS	36		33
19	KOLI MITALI SANJAY	34		30
20	KURADE VAIBHAVI BAPU	28		28
21	MHATRE ADARSH GOVIND	6		10
22	MHATRE NEHA ARUN	37		25
23	MHATRE RAJ KISHOR	37		20
24	MOKAL KOMAL GAJANAN	5		20
25	NAIK PRACHI JIVAN	33		29
26	NALAWADE TANVI HEMANT	34		24
27	PATIL AMEY BHAGYODAY	8		20
28	PATIL ATHARVA SAMBHAJI	8		8
29	PATIL MAHESH MOHAN	29		15
30	PATIL SAYALI SANTOSH	20		27
31	PATIL TANISHKA SANTOSH	29		15
32	PHATAK ADITI RAJESH	35		24
33	POSAM ISHA MAHENDRA	28		15
34	SALUNKHE SAHIL DINESH	8		5
35	SALVI ADEE AJAY	13		9
36	SATYAM KUMAR JHA	8		6
37	SHRIVASTAV AADARSH ANIL	12		10
38	SUPEKAR RASHI RAHUL	35		24
39	TAVLE ADITYA VIJAY	8		13
40	VARADKAR VARAD GURUDATTA	37		20
41	VISHWASRAO SAKSHI GAHININATH	37		32

Total No of Students on roll no.	19	0	19
Total No of Students Present	19		19
Average Marks	59.47368421		52
No of students at and above target level	15		16

% of students at and above target level	78.94736842	84.2
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	3	3.30
2	Distribution of Marks for CO2	2	13.20
3	Distribution of Marks for CO3	5	6.60
4	Distribution of Marks for CO4	25	9.90
5	Distribution of Marks for CO5	10	9.90
6	Distribution of Marks for CO6	5	6.60
	Total	50	50

Percentage attainment at CO level			
	Internal	Jury	End sem
CO1	7		3
CO2	6		14
CO3	6		7
CO4	6		10
CO5	6		10
CO6	6		7

Mahatma Education Society's							
Pillai HOC college of Architecture, Rasayani							
Course outcome attainment from End Semester Examination (Indirect Mapping)							
Course - Architectural Building Construction and Materials - 403						Academic Year - 2023-24	
Faculty Name- Ar. Abhishek C, Ar. Amrut D, Ar. Amit K, Ar. Pooja H						Semester - IV	
INDIRECT ASSESSMENT REPORT							
COURSE EXIT SURVEY STATISTICS							
Total No. of Students Present for Exit Survey :						41	
Course Objectives	Acceptance Level					%	Out of 30
	5	4	3	2	1		
CO1	9	6	3	0	0	38	11
CO2	10	6	2	0	0	39	12
CO3	12	6	0	0	0	41	12
CO4	7	4	7	0	0	35	11
CO5	5	8	5	0	0	35	11
CO6	5	8	4	1	0	35	10
						Avg.	11

Course Outcomes	
CO1	Students will be able to summarize properties, characteristics and various application of steel as a construction material
CO2	Students will be able to design foundation plan, floor plans, and structural column layout for a warehouse building in steel
CO3	Students will be able to create construction details for various connections of steel column with RCC pad footing, steel column splicing, steel beam to column and beam to beam connections for the warehouse building
CO4	Students will be able to create construction details for various parts/connections of steel deck floor for the warehouse building
CO5	Students will be able to create construction details for various parts/connections of steel truss roof for the warehouse building
CO6	Students will be able to create construction details for various parts/connections of steel staircase for the warehouse building

Mahatma Education Society's	
Pillai HOC college of Architecture, Rasayani	
Course outcome attainment from End Semester Examination (Course Assessment Report)	
Academic Year - 2023-24	
Semester - IV	
Course - Architectural Building Construction and Materials 403	
Faculty Name- Ar. Abhishek C, Ar. Amrut D, Ar. Amit K, Ar. Pooja H	
COURSE ASSESSMENT REPORT	

Course Outcome	Course Outcome						Total Attainment
	Indirect Measure	Direct Measure 70%	Jury	End sem	Direct Measurement	Total Attainment	
		Internal					
% Weightage	30	35	0	35	70	100	
CO1	11	1.05	0.0	1.2	2	14	
CO2	12	0.70	0.0	4.6	5	17	
CO3	12	1.75	0.0	2.3	4	16	
CO4	11	8.75	0.0	3.5	12	23	
CO5	11	3.50	0.0	3.5	7	18	
CO6	10	1.75	0.0	2.3	4	14	

Course Outcome	Total Attainment	Program Outcome											
		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	14	3	2	2	3	1	1	0	1	3	3	0	0
CO2	17	3	2	3	2	0	2	0	2	1	2	0	0
CO3	16	3	1	3	1	0	1	0	1	1	2	0	0
CO4	23	3	1	3	1	0	1	0	1	1	2	0	0
CO5	18	3	1	3	1	0	1	0	1	1	2	0	0
CO6	14	3	1	3	1	0	1	0	1	1	2	0	0
Total Attainment of PO	50.85	22.06	48.58	24.33	2.27	19.79	0.00	19.79	21.49	36.17	0.00	0.00	
Level of attainment													
LEVEL 1=0-30, LEVEL 2=30-60, LEVEL 3 =60 ONWARDS		3.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	2.00	1.00	3.00	
Indirect Measurement		33.44	31.54	16.90	13.10	0.00	13.10	24.20	14.95	0.00	0.00	0.00	
Direct		17.41	7.06	7.43	6.69	0.00	6.69	11.98	6.54	0.00	0.00	0.00	
1: Low 2: medium 3: High 0: Not Existing													

Program Outcomes	
PO-1	Architectural knowledge: Acquire knowledge on diverse architectural sub domains such as 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)						
Academic Year - 2023-24						
Semester - IX						
Sr. No	Assignment Questions	Marks	CO1	CO2	CO3	CO4
			Students will be able to summarize building management systems and service core designs in buildings	Students will be able to calculate electrical loads in a given building through evaluation of a live space	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
1	Report 1 - Book/internet case study of service core design of any one tall office building		10			
2	Report 2 - Summary of learnings from the guest lecture by industry expert Architect Krishna Dakshinkar from K Studio, Thane			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	10	5	10	25

Mahatma Education Society's						
Pillai HOC college of Architecture, Rasayani						
Course outcome attainment from End Semester Examination (Assignment Mapping)						
Academic Year - 2023-24						
Semester - IX						
Assignment No.	1	2	3	4		
	Internal	CO1	CO2	CO3	CO4	

Sr. No	Name of the student	50	10	5	10	25
1	DASGUPTA RAGMONJORI	34	7	6	6	15
2	DAVAKHAR ABHAY AMBADAS	31	6	7	5	13
3	DESHMUKH RUCHIRA PRAVIN	36	7	6	7	16
4	DHURI POOJA LAXMAN	30	6	7	5	12
5	DODIYA PARIDHI BHARAT	38	8	6	7	17
6	HUMBE SHRUTI NAVNATH	28	5	5	6	12
7	INGALE JAYESH KISHOR	30	6	6	5	13
8	KARPE NIKITA DHARMARAJ	33	5	7	7	14
9	KUMAR SUNIDHI UMESH	30	6	6	5	13
10	KUMBHAR SHREEPARTH RAJENDRA	29	7	6	6	10
11	MHATRE ANIRUDDHA DEEPAK	25	5	5	5	10
12	MHATRE MAYURI NINAD	32	7	6	6	13
13	MHATRE PIYUSA UMESH	32	6	6	8	12
14	MHATRE RAJ	28	5	5	5	13
15	NAKKA NAVIN NARSAIAH	30	6	7	5	12
16	NALAWADE CHINMAY RAJENDRA	28	6	5	5	12
17	PANDARE DARSHANA NARENDRA	34	7	6	8	13
18	PATIL GAYATRI RAJU	32	7	7	6	12
19	PATIL YASH NIKHIL	33	7	6	7	13
20	POTPHODE PRIYAL DINESH	31	7	6	6	12
21	RANBHOR UTKARSHA PURUSHOTTAM	39	8	6	8	17
22	SABLE PRITAM DATTATRAY	30	6	7	5	12
23	SAKHARE SAKSHI NISHANT	35	6	6	7	16
24	SANNAKE PRAGATI DATTATRAY	30	6	5	6	13
25	SAPLE VIRAJ RATNAPRAKASH	34	6	6	7	15
26	SARANYA PRAKASH A	34	6	6	8	14
27	SASE MANSI SADASHIV	35	7	6	7	15
28	SHAIKH SAHIL JJARUL	34	7	6	5	16
29	SHEWALE RUNALI SURESH	31	5	6	6	14
30	SHINDE SHREYASH DATTATRAY	32	5	6	7	14
31	THAKUR PRANAY VIKAS	32	6	7	6	13
	Average	6	6	6	6	13

	Out of 50	Out of 100
CO1	6	13
CO2	2	5
CO3	6	12
CO4	13	25
CO5	-	-
CO6	-	-

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 - 2023-24
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	Students will be able to summarize building management systems and service core designs for regular and automated services systems in buildings
CO2	Students will be able to 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	Students will be able to outline various integrated MEP services in a commercial building with case study of a live project
CO4	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
CO5	-
CO6	-

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 - 2023-24
Faculty Name- Ar. Abhishek Chakraborty	Semester - IX

DIRECT ASSESSMENT REPORT				
		Internal	Jury	End sem
Sr. No	Name of Student	50	0	0
1	DASGUPTA RAGMONJORI	34	0	0
2	DAVAKHAR ABHAY AMBADAS	31	0	0
3	DESHMUKH RUCHIRA PRAVIN	36	0	0
4	DHURI POOJA LAXMAN	30	0	0
5	DODIYA PARIDHI BHARAT	38	0	0
6	HUMBE SHRUTI NAVNATH	28	0	0
7	INGALE JAYESH KISHOR	30	0	0
8	KARPE NIKITA DHARMARAJ	33	0	0
9	KUMAR SUNIDHI UMESH	30	0	0
10	KUMBHAR SHREEPARTH RAJENDRA	29	0	0
11	MHATRE ANIRUDDHA DEEPAK	25	0	0
12	MHATRE MAYURI NINAD	32	0	0
13	MHATRE PIYUSA UMESH	32	0	0
14	MHATRE RAJ	28	0	0
15	NAKKA NAVIN NARSAIAH	30	0	0
16	NALAWADE CHINMAY RAJENDRA	28	0	0
17	PANDARE DARSHANA NARENDRA	34	0	0
18	PATIL GAYATRI RAJU	32	0	0
19	PATIL YASH NIKHIL	33	0	0
20	POTPHODE PRIYAL DINESH	31	0	0
21	RANBHOR UTKARSHA PURUSHOTTAM	39	0	0
22	SABLE PRITAM DATTATRAY	30	0	0
23	SAKHARE SAKSHI NISHANT	35	0	0
24	SANNAKE PRAGATI DATTATRAY	30	0	0
25	SAPLE VIRAJ RATNAPRAKASH	34	0	0
26	SARANYA PRAKASH A	34	0	0
27	SASE MANSI SADASHIV	35	0	0
28	SHAIKH SAHIL JIARUL	34	0	0
29	SHEWALE RUNALI SURESH	31	0	0
30	SHINDE SHREYASH DATTATRAY	32	0	0
31	THAKUR PRANAY VIKAS	32	0	0

Total No of Students on roll no.	87		0
Total No of Students Present	87	0	0
Average Marks	29	0	0

No of students at and above target level	24	0	0
% of students at and above target level	27.6	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		
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 - 2023-24																					
Semester - IX																					
COURSE ASSESSMENT REPORT																					
Course Outcome																					
Course Outcome	Indirect Measure	Direct Measure		Jury	End sem	Direct Measurement	Total Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
		Internal	70%																		
% 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														
Program Outcome																					
Course Outcome	Total Attainment	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								
CO2	28	3	3	0	0	0	0	0	2	0	0	0	0								
CO3	31	2	3	0	2	1	0	1	3	3	3	0	0								
CO4	42	3	3	3	0	3	0	1	3	0	3	0	0								
CO5	0	0	0	0	0	0	0	0	0	0	0	0	0								
CO6	0	0	0	0	0	0	0	0	0	0	0	0	0								
Total Attainment of PO	55.47		65.83	21.01	20.71	31.37	0.00	17.36	61.24	15.63	41.79	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	1.00	1.00	2.00	1.00	1.00	3.00	1.00	2.00	1.00	1.00								
Direct		40.30	48.33	12.26	16.04	0.00	12.11	44.33	12.13	28.37	0.00	0.00	0.00								
Total		15.17	17.50	8.75	4.67	0.00	5.25	16.92	3.50	13.42	0.00	0.00	0.00								
1: Low		2: medium	3: High	0: Not Existing																	
Program Outcomes																					
PO-1	Architectural knowledge: Acquire knowledge on diverse architectural sub domains such as 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