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Bharati Vidyapeeth
COLLEGE OF ARCHITECTURE
Affiliated to the University of Mumbai



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

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

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

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

Date :

CRITERIA 2

TEACHING LEARNING & EVALUATION




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2.6
STUDENT PERFORMANCE AND LEARNING
OUTCOME




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2.6.2– Attainment of program outcomes and course outcomes are evaluated by Institution

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1. Description

Attainment of program outcomes (POs) and program specific outcomes (PSOs) are done by Institute. The faculties individually prepared CO, PO and PSO attainment of their allotted subject for the academic year 2022-2023. The logical CO-PO mapping is prepared for each subject in the scale ranging from 1-3 (3 – substantial, 2 – Moderate, 1 – Low). The weighted average of CO PO and PSO is calculated and the rounded digit of weighted average is set as target level for the respective COs and POs. Four sample sheets of CO PO for each semester are included under this criteria. The overall summary of PO and PSO attainment is analysed by Principal.

Method of CO attainment

CO attainment is measured in terms of direct and indirect attainment as given below in table. If the Co attainment is below the set target the action plan for improvement of CO in the next academic year is proposed. The average CO for each subject is calculated and used in further PO and PSO attainment.

Assessment Type	Assessment Tool	Direct CO Attainment in % (DCO) (0.2*Internals + 0.8*End Exam)	Overall CO Attainment (0.9*DCO + 0.1*IA)
Direct Assessment (DA)	Internal/ Sessional	20%	90 % of Direct CO Attainment
	Theory paper/End term Exam/ Jury/Viva	80%	
Indirect Assessment (IA)	Course End semester feed back	--	10 % of Indirect CO attainment
CO Attainment target levels	50 % of students scoring pass marks = Level 1 60 % of students scoring pass marks = Level 2 70 % of students scoring pass marks = Level 3		



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Method of PO & PSO attainment

The program outcomes and Program specific outcomes are calculated by using the below formula and the action plan for improvement of PO and PSO is proposed. The summary sheet of overall Po and PSO for semester 1 to semester 10 is prepared for overall analysis. The overall PO PSO attainment for all the semesters is prepared in Excel sheet.

$$PO = \frac{\text{weighted average value of PO X Avg. CO Attainment}}{3}$$

Note: CO PO Attainment has been computed for B.Arch and B.Voc programs. Hereby presented is the CO PO attainment for B.Arch Program only. For each semester four subjects i.e. two theory subjects and two design subjects CO PO attainment have been presented.




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2. Overall PO-PSO Summary

Bachelor of Architecture (B. Arch) -Overall PO –PSO Summary of Academic Year 2022-2023

PO	PO Statement	PO Attainment Value
PO1	Inquiry based mediated experiential learning through rigorous understanding about academic knowledge domains such as Arts, Technology, Science and Environment / Sustainability.	1.556
PO2	The reflective learning orients the students towards questioning the knowledge obtained and develop skills to chisel their problem-solving capacity.	1.353
PO3	Nurturing students' ability to translate concepts through creativity and technological aspects into tangible and intangible forms.	1.423
PO4	Imparting education through advanced tools which sensitize the students to strengthen their visualisation skills and imagine the outcome before reality.	1.382
PO5	The education and knowledge imparted in the institution instils professional competencies and ethical values in students to provide them the appropriate skills and confidence to engage them in positions of social responsibilities as well as creating a sustainable society with inclusive approach of design respecting the Indian ethos and cultural values.	1.401
PO6	Students are trained to engage in social outreach initiatives to implement best practices in environment conservation and sustainability through employing knowledge and skills.	1.443
PO7	The initiative of learning by exploring and case-based learning equips the students to work collaboratively to achieve personal and professional goals	1.372
PO8	The role of an architect today is to communicate effectively his/ her ideas to benefit the society at large and the institution aims at imparting this capacity.	1.393
PO9	The concept of integration of diverse perspectives connecting local to global realities through the various social outreach initiatives of the institution.	1.508
PSO1	Analysing, evaluating, and synthesizing ideas and information gathered through design thinking and application into conceptualisation of design modules by consideration of alternative perspectives.	1.388
PSO2	The knowledge and ability to apply a design decision-making through different aspects from concerned stake holders and appropriate technology.	1.334
PSO3	Establish application of knowledge through applied research by raising clear and precise questions and considering diverse points of view, to reach well-reasoned conclusions and evaluate options against relevant design criteria, building standards, and program requirements.	1.415



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CO PO MAPPING

Benchmarks

Semester	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3	
Semester 1	AD	3	2	3	3	2	2	2	3	2	2	2	3	
	ALLIED DESIGN	3	-	3	-	-	2	3	2	3	2	-	2	
	ABCM	3	-	3	3	2	3	-	2	2	3	3	3	
	TOS	3	3	3	-	-	-	-	-	-	-	2	3	2
	HUMANITIES	2	2	3	-	2	-	-	2	2	2	-	2	2
	EVS	3	2	2	2	3	3	3	3	2	3	3	2	3
	ARD	3	3	3	-	-	-	-	2	3	3	3	3	3
Semester 2	AD	3	3	3	2	2	2	2	3	2	3	3	3	
	ALLIED DESIGN	3	-	3	-	-	3	3	3	3	3	-	3	
	ABCM	3	-	3	3	-	3	3	3	3	3	3	3	
	TOS	3	3	3	-	-	-	-	-	-	2	3	2	
	HUMANITIES	3	-	-	-	3	-	-	3	2	-	2	2	
	EVS	3	-	2	-	3	3	3	-	3	3	-	3	
	ARD	3	3	3	-	-	-	-	3	3	3	3	3	
Semester 3	AD	3	3	3	3	3	3	3	3	3	3	3	2	
	ALLIED DESIGN	3	3	3	3	-	3	1	-	3	3	2	3	
	ABCM	3	2	2	3	-	-	-	-	2	2	2	2	
	TOS	3	2	2	-	-	-	-	-	3	3	3	3	
	BUILDING SERVICES	3	2	3	-	-	-	-	-	-	-	2	3	3
	HUMANITIES	3	2	-	-	3	-	-	-	-	-	-	2	-
	EVS	2	2	2	-	2	2	-	-	-	2	2	2	3

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Semester- 4	AD THEORY	3	3	3	-	-	-	-	3	3	3	-	3	-	3	
	ARD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	AD	3	2	2	2	2	2	1	2	2	2	2	3	3	3	
	ALLIED DESIGN	2	2	2	2	1	1	1	1	1	2	2	2	2	2	
	ABCM	3	3	2	2	2	-	-	-	-	2	2	2	2	3	
	TOS	3	2	2	2	-	-	-	-	-	3	3	3	3	3	
	BUILDING SERVICES	3	3	3	3	-	-	-	-	-	-	-	-	3	3	
	HUMANITIES	3	2	2	1	-	3	-	2	-	-	-	2	2	-	
	AD THEORY	3	3	3	3	3	-	-	-	-	3	3	3	3	3	
	ARD	3	3	3	3	2	2	2	2	2	2	2	2	3	2	
Semester- 5	AD	3	3	3	3	3	3	3	3	2	2	2	3	3	3	
	ALLIED DESIGN	3	2	2	2	3	3	2	3	3	3	3	3	3	3	
	ABCM	3	-	3	3	-	-	-	-	3	-	-	3	-	3	
	TOS	3	2	2	2	-	-	-	-	-	-	-	3	3	3	
	BUILDING SERVICES	3	2	2	3	-	-	2	-	-	-	-	2	2	2	
	HUMANITIES	3	-	-	3	-	-	-	-	3	-	-	-	3	-	
	AD THEORY	3	2	2	2	2	3	2	3	2	3	2	2	2	2	
	ARD	3	3	3	3	2	2	2	2	2	2	2	2	3	2	
	AD	3	3	3	3	-	-	-	2	3	3	3	3	3	3	
	ALLIED DESIGN	3	3	3	3	3	3	3	3	3	3	3	3	3	2	
Semester- 6	ABCM	3	-	3	3	-	-	-	-	3	-	-	3	-	3	
	TOS	2	2	3	3	-	-	2	-	-	-	-	3	2	3	
	BUILDING SERVICES	3	2	2	3	-	-	-	-	3	-	-	3	2	2	
	HUMANITIES	2	2	2	2	1	2	-	2	1	2	2	2	2	2	
	ARD	2	3	2	2	2	1	2	2	1	3	3	3	3	3	
	AD	3	3	3	3	3	3	3	3	3	3	3	3	2	2	
	ALLIED DESIGN	3	2	1	2	-	2	-	2	-	-	2	1	1	1	
	Semester- 7	AD	3	3	3	3	3	3	3	3	3	3	3	3	2	2
		ALLIED DESIGN	3	2	2	1	2	2	2	2	2	2	2	2	1	1

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Semester 8	ABCM	3	2	3	-	-	-	-	-	3	2	3	3													
	TOS	3	3	3	-	-	3	-	-	3	3	3	3													
	BUILDING SERVICES	3	2	-	3	-	3	3	-	3	3	3	3													
	ARD	3	2	2	2	3	2	2	3	2	3	3	3													
	PP	3	3	-	-	3	-	-	3	-	-	3	3													
	PROFESSIONAL TRAINING	3	3	3	2	3	2	2	3	3	3	3	3													
	AD	3	3	3	3	3	2	2	3	-	3	3	3													
	ALLIED DESIGN	3	3	3	-	2	2	-	-	2	3	3	3													
	ABCM	3	2	3	3	-	3	3	3	3	3	2	2													
	TOS	3	3	3	3	-	3	-	-	3	3	3	3													
Semester- 9	BUILDING SERVICES	3	3	3	2	2	3	2	2	3	3	3	3													
	EVS	3	3	-	-	3	3	3	-	-	-	-	3													
	PP	3	2	-	2	3	3	-	2	3	1	2	3													
	DD	2	3	3	2	3	2	-	3	3	3	3	3													
	ABCM	3	2	3	2	-	2	3	2	3	2	2	3													
	EVS	3	3	3	-	-	3	3	-	-	3	3	3													
	AD THEORY	2	2	2	-	-	-	-	3	-	2	2	-													
	DD	3	3	3	3	3	3	-	3	3	3	3	3													
	ARD	3	3	3	2	2	3	2	2	3	3	3	3													
	PP	3	3	-	-	3	3	3	3	3	3	3	2													
TOTAL	196	150	156	98	96	100	76	99	139	159	163	172														
AVERAGE BENCHMARK PO													2.882	2.542	2.644	2.512	2.594	2.631	2.375	2.475	2.673	2.651	2.629	2.646		
Semester- 10																										



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CO PO MAPPING 2022-23

Semester	Subject	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO1	PSO2	PSO3
Semester 1	AD	1.475	1.202	1.442	1.393	1.147	1.147	0.983	1.393	1.202	1.147	1.229	1.376
	ALLIED DESIGN	1.82	-	1.74	-	-	1.59	1.87	1.7	1.83	1.66	-	1.66
	ABCM	1.639	-	1.253	1.302	1.157	1.441	-	1.157	1.157	2.562	2.375	2.5
	TOS	1.71	1.61	1.5	-	-	-	-	-	-	1.29	1.45	1.29
	HUMANITIES	0.919	0.96	1.08	-	0.864	-	-	0.874	0.816	-	0.84	0.84
	EVS	1.8	1.2	1.5	1.2	1.7	1.7	1.9	1.9	1.2	1.8	1.71	1.58
Semester 2	ARD	1.925	1.65	1.797	-	-	-	1.283	1.773	1.885	1.925	1.564	1.925
	AD	1.92	1.92	1.694	1.355	1.355	1.355	1.355	1.694	1.355	1.807	1.807	1.694
	ALLIED DESIGN	1.61	-	1.54	-	-	1.41	1.66	1.51	1.62	1.47	-	1.47
	ABCM	1.42	-	1.42	1.51	-	1.32	1.42	1.7	1.59	2.13	2.38	2.63
	TOS	1.27	1.19	1.11	-	-	-	-	-	-	0.95	1.07	0.95
	HUMANITIES	1.2	-	-	-	1.2	-	-	1.845	0.89	-	-	0.93
Semester 3	EVS	1.7	-	1.5	-	1.7	1.7	1.9	-	1.8	1.66	-	1.66
	ARD	1.925	1.65	1.797	-	-	-	1.283	1.773	1.885	1.845	1.499	1.845
	AD	1.38	1.058	1.104	0.9246	0.993	0.993	1.071	1.012	1.278	1.27	1.035	0.64
	ALLIED DESIGN	1.43	1.32	1.65	1.65	-	1.28	0.55	0.55	0.55	1.32	1.05	1.57
	ABCM	1.314	1.15	0.986	1.479	-	-	-	-	-	0.547	0.486	2.333
	TOS	1.373	0.955	0.895	-	-	-	-	-	-	1.433	1.154	1.2734
Semester 4	BUILDING SERVICES	1.28	0.82	1.13	-	-	-	-	-	-	0.89	0.58	0.85
	HUMANITIES	1.55	1.03	-	-	1.55	-	-	-	-	-	1.03	-
	EVS	1.3	1.24	1.24	-	1.24	-	-	-	1.24	1.02	0.77	1.15
	AD THEORY	1.61	1.66	-	1.51	-	-	-	1.56	1.51	-	-	1.51
	ARD	1.7	1.73	1.79	1.82	1.73	1.85	1.88	1.88	1.88	1.63	1.69	1.76
	AD	1.49	0.72	1.04	0.85	0.6	0.87	0.52	0.62	1.2	1.23	1.11	1.22
Semester-4	ALLIED DESIGN	1.52	1.05	1.39	0.227	0.292	0.66	0.227	0.15	1.49	1.4	1.02	1.3
	ABCM	1.622	1.687	1.298	1.298	-	-	-	-	1.298	0.842	0.842	2.75
	TOS	1.316	1.139	0.949	-	-	1.519	-	-	1.519	1.266	1.35	1.35

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Semester-5	BUILDING SERVICES	0.84	0.9	0.96	-	-	-	-	-	-	-	-	0.84	0.94	0.9
	HUMANITIES	1.59	1.06	0.53	-	1.59	-	-	1.06	-	-	-	1.06	1.06	-
	AD THEORY	1.67	1.52	1.72	1.37	-	-	-	1.44	1.59	1.51	1.51	1.51	1.51	1.46
	ARD	1.36	1.36	1.37	1.27	1.6	1.27	1.27	1.6	-	1.31	1.41	1.41	1.41	1.27
	AD	2.375	2.25	2.083	2.167	2.333	2.333	2.5	2	2	2.438	2.25	2.25	2.25	2.25
	ALLIED DESIGN	1.818	1.414	1.273	-	1.697	1.576	1.212	1.576	1.616	1.697	1.667	1.667	1.667	1.465
	ABCM	1.79	-	1.79	1.79	-	-	-	-	1.79	-	1.07	1.07	1.07	1.07
	TOS	1.3024	1.1725	0.977	-	-	-	-	-	1.3435	1.2213	1.2213	1.2213	1.2213	1.2213
	BUILDING SERVICES	1.358	1.1	1.415	-	-	1.258	-	-	-	1.05	1.101	1.101	1.101	1.05
	HUMANITIES	1.53	-	-	1.42	1.53	-	-	-	-	1.3	-	-	-	-
AD THEORY	1.216	0.96	0.96	0.96	1.37	1.09	-	1.37	-	1.098	1.098	1.098	1.098	1.098	
ARD	1.67	1.59	1.5	1.33	-	-	-	-	1.33	1.34	1.54	1.54	1.34	1.34	
AD	1.27	1.29	1.28	1.38	-	1.38	-	1.11	1.16	1.32	1.311	1.311	1.32	1.2	
ALLIED DESIGN	1.832	1.885	1.759	1.675	1.727	1.885	1.57	1.759	1.832	1.885	1.885	1.885	1.885	1.256	
ABCM	1.633	-	1.633	1.633	-	-	-	-	1.633	-	0.89	0.89	0.89	0.89	
TOS	0.96	1	1.15	-	-	1	-	-	1.12	0.52	0.5	0.5	0.5	0.55	
BUILDING SERVICES	1.438	1.081	1.013	1.351	1.6222	-	-	-	-	1.351	1.081	1.081	1.081	0.878	
HUMANITIES	1.026	0.586	1.173	0.586	1.056	-	1.173	0.586	1.173	1.349	1.271	1.271	1.271	1.056	
ARD	1.468	1.524	1.444	1.405	0.842	0.966	0.91	0.818	1.635	1.65	1.654	1.654	1.654	1.691	
AD	1.54	1.44	1.6	1.8	1.44	1.5	1.68	1.2	1.44	1.08	1.08	1.08	1.08	1.08	
ALLIED DESIGN	1.642	1.147	1.001	1.095	1.054	1.251	1.877	1.564	1.564	1.126	1.016	1.016	1.016	0.73	
ABCM	1.542	0.841	1.262	-	-	-	-	-	1.402	1.212	1.682	1.682	1.682	1.682	
TOS	1.57	1.518	1.572	1.35	-	1.35	-	-	1.35	1.42	1.68	1.68	1.68	1.35	
BUILDING SERVICES	1.36	0.72	-	1.08	-	1.28	1.29	-	1.44	1.36	1.36	1.36	1.36	1.12	
ARD	1.83	1.22	1.22	1.22	1.52	1.22	1.22	1.52	1.22	1.29	1.29	1.29	1.29	1.29	
PP	1.63	1.5	-	-	1.63	-	-	1.54	-	-	1.63	1.63	1.63	1.63	
PROFESSIONAL TRAINING	2.163	2.098	1.967	2.163	2.098	2.229	2.135	2.262	1.967	1.967	2.023	2.163	2.163	2.163	
AD	1.81	1.51	1.81	1.66	1.51	1.35	1.2	1.81	-	1.81	1.51	1.51	1.51	1.21	
ALLIED DESIGN	2.562	2.5	2.5	-	2	-	2	-	1.833	2.25	2	2	2	2.125	
ABCM	1.766	1.219	1.472	1.766	-	1.766	1.472	1.766	1.766	1.766	1.346	1.346	1.346	1.177	
TOS	2.287	2.21	2.141	2.287	-	2.2873	-	-	1.9275	2.14	2.14	2.14	2.14	2.24	

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	BUILDING SERVICES	1.574	1.45	1.381	1.353	1.151	1.385	1.22	1.346	1.519	1.524	1.528	1.574
	EVS	1.49	1.55	-	-	1.55	1.75	1.3	-	-	-	-	1.35
	PP	0.97	0.65	-	0.65	0.97	-	-	0.65	0.97	0.32	0.65	0.97
	DD	1.458	1.562	1.718	1.458	1.562	1.458	-	1.875	1.562	1.625	1.875	1.666
	ABCM	1.847	1.488	1.724	1.334	-	0.924	1.539	1.231	1.847	1.436	1.282	1.744
	EVS	1.54	1.49	1.49	-	-	1.49	-	-	-	1.04	1.49	1.54
	AD THEORY	0.93	1.24	1.4	-	-	-	-	1.56	-	0.39	0.39	-
	DD	1.57	1.449	1.57	1.389	1.349	1.469	-	1.389	1.691	1.51	1.53	1.51
	ARD	1.31	1.35	1.3	1.13	1.04	1.36	1.04	1.04	1.42	0.97	1.45	1.45
	PP	2.08	2.08	-	-	2.08	2.08	2.08	2.08	2.08	1.39	1.39	1.39
	TOTAL	105.8354	79.8655	84.003	56.5906	51.8492	57.7423	46.59	58.543	78.425	83.2903	82.7617	90.5687
	OVERALL PO ATTAINMENT	1.556	1.353	1.423	1.382	1.401	1.443	1.372	1.393	1.508	1.388	1.334	1.415
	% PO ATTAINMENT	53.99	53.22	53.81	55.01	54.01	54.84	57.76	56.28	56.41	52.35	50.714	53.47

Semester-
10



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3. Analysis of Program Outcomes & Program Specific Outcomes

From the Academic Year 2022-23, we have implemented the CO-PO mapping and its attainment. Since it's the first time this mapping was done, it is observed that the POs are not entirely achieved. The following reasons are cited for not being able to achieve the POs substantially:

A. Qualitative/ Pedagogical Issues

1. The students are studying in difficult conditions during the COVID crisis which has resulted in moderate performance of students during subsequent years.
2. It was difficult for students as well as faculty to adjust from the online mode to the offline mode. It was challenging for the faculty to decipher the real extent of the student's understanding and knowledge due to the liberal assessment policy of the colleges in general during the COVID crisis.
3. The curriculum and mode of teaching-learning prior to taking admission in a creativity-based course like Architecture, shifts the majority of onus on the faculty of the architectural stream to make lots of efforts to shift the thinking of students of Architecture from logical reasoning-based learning to design-based creative learning.
4. Social connection with academics and professionals is not achieved through the limited exposure during the COVID period. The pre-COVID scenario had the Institute take initiatives in the social realm of the city of Navi Mumbai and the communities around it through organizations like NMMC, PMC, Rotary, and other NGOs.
5. During the COVID crisis, domestic and international tours, which are a part of the learning beyond classroom program of architecture curriculum could not be catered to, and hence the overall learning experience of the students was reduced considerably.

B. Quantitative Issues:

1. Overall drop in Architecture as a course for the professional aspiration of the new generation as the market salary and demand for Architect as a professional is at a saturated level. The payment in other sectors is much higher than in this profession, though in the long run, the profession is quite




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- satisfying in terms of monetary benefits. This aspect has resulted in the number of students taking admission to this course as well as a number of quality students opting for this course.
2. The number of Architecture Colleges mushrooming in Mumbai metropolitan region has resulted in the quality deteriorating and the delay in the admission process in Maharashtra State has further dwindled the chances of bright students opting for this stream of education.
 3. The lack of Workshops and electives which were offered prior to the COVID Crisis has also seen apathy from the student's end to come to college as inter-disciplinary learning is partaken through these co-curricular activities and was always keeping the students engaged in college.
 4. The complex co-ordination system of the Administrative and examination procedures leave little time for the Faculty to concentrate on the aspects of improvised teaching- learning methods of classroom imparting of knowledge and hence creates a gap in understanding by the average students. Though remedial classes are taken, but it does not infiltrate at the level of understanding aspired by both the teacher as well as the student.




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4. PO PSO Corrective Measures

The corrective measures for the above mentioned aspects can be dealt with in the Vision Plan of the Institute in the following categories:

A. Qualitative/ Pedagogical Vision:

1. It is essential to acknowledge the levels of information to be provided to the students entering the Architecture Institute. The theoretical courses need to be designed to expose students to Theories and Practices in Architecture gradually. The vertical arc of learning of the subjects required to inculcate design thinking needs to be carefully calibrated – from fundamental understandings to more elaborate critical readings of culture and the role of architecture as well as architects in society.
2. Students and Faculty need to be encouraged to widen their professional horizons through out of box learning through conferences, seminars, and exhibitions related to the architecture profession as an inter-disciplinary approach towards teaching-learning needs to be amalgamated with the curriculum to make the budding architects understand their role in the society. Their grooming at the institute level is certainly going to impact the larger cause of the nation building and have a global impact. This can be further taken up as a case-based study achieved through interaction with practicing architects who can engage with students to make them understand the grassroots-level issues in practice and society at large.
3. PSO 1 Hands-on Approach towards visualization with the dissolution of the fragmented studios can be replaced by beginning-to-end schedules with a more structured and comprehensive pedagogy. Design thinking can be accentuated by way of end-to-end assignments planned towards a more interdisciplinary approach.
4. PSO 2 Certain electives can be curated at an early stage for architecture students so that they can be trained to address stakeholders in the profession and they can be more profession-ready as entrepreneurs, ready to set up their own office/ start-ups in the professional realm.




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5. PSO 3 Academic Research culture should be nurtured to allow knowledge creation and keep lifelong learning for Faculty to advance and update their professional capabilities as Architects in Academics. This will percolate amongst the students.
6. International Study Tours and Global Exposure can be planned by designing interactive sessions with internationally active professionals. The multiple MOUs the institute has can work towards such global exposure and learning which will prepare the students to tackle global issues and opportunities. The decade-long initiative of conducting an Indo-French Workshop will be in the vision plan of the institute to enhance this trans-disciplinary learning.
7. Another Focus area taken up by the Institute till 2020 can be revived by focusing and orienting the Design and exploration approach towards learning by case studies: Vernacular and Traditional Knowledge systems were integrated earlier with the course program with study tours focusing on the study of a particular climatic zone and the vernacular approach of the settlement and building design. These field trips and documentation initiatives helped the students to understand firsthand the age-old techniques of design and building systems along with the climate and locational responsive approaches in which the indigenous community engaged.
8. The Faculty in the first year of Architecture needs to be more seasoned and mature with the ability to handle and smoothen this transition of a non-creative background student to mold into a creative and design-oriented professional.
9. The earlier initiatives of engaging in the public realm with the local municipalities, Rotary International Chapter, or other NGOs need to be revived and plugged in with the curriculum to boost the symbiotic relationship between the institute and its immediate vicinity. This also enhances the understanding the aspiring architects have of societal needs and their role in it.

B. Quantitative Issues:

1. An inter-disciplinary teaching-learning pedagogy needs to be implemented at the Institute level with a focus on weaving the syllabus with more Technological advances which can aid in enhancing




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the visualization skills of the aspiring students. The aids such as the CNC machines and parametric design software can build up the confidence of the students towards their pursuit of creative excellence.

2. The inter-disciplinary approach which can be introduced by the institute through its various elective and workshop initiatives, can revive the dwindling interest the aspiring architecture student has today and provide a platform for growth and exploration.




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5. Bachelor of Architecture (B. Arch)

First Year Report - PO & PSO Attainment & Corrective Measures (2022-2023)

PO	PO Statement	Attainment Value	PO Corrective Measures
PO1	Inquiry based mediated experiential learning through rigorous understanding about academic knowledge domains such as Arts, Technology, Science and Environment / Sustainability.	1.595	Improve attendance of students and to develop studio culture
PO2	The reflective learning orients the students towards questioning the knowledge obtained and develop skills to chisel their problem-solving capacity.	1.423	Encourage questioning and clearing their doubts.
PO3	Nurturing students' ability to translate concepts through creativity and technological aspects into tangible and intangible forms.	1.490	Hands on work modelling
PO4	Imparting education through advanced tools which sensitize the students to strengthen their visualisation skills and imagine the outcome before reality.	1.352	To enhance students computer software knowledge
PO5	The education and knowledge imparted in the institution instils professional competencies and ethical values in students to provide them the appropriate skills and confidence to engage them in positions of social responsibilities as well as creating a sustainable society with inclusive approach of design respecting the Indian ethos and cultural values.	1.303	Learning from examples of great practitioners
PO6	Students are trained to engage in social outreach initiatives to implement best practices in environment conservation and sustainability through employing knowledge and skills.	1.457	Field based initiative and students participation.
PO7	The initiative of learning by exploring and case-based learning equips the students to work collaboratively to achieve personal and professional goals	1.517	Team work to be organised
PO8	The role of an architect today is to communicate effectively his/ her ideas to benefit the society at large and the institution aims at imparting this capacity.	1.510	More Presentation and feed backs
PO9	The concept of integration of diverse perspectives connecting local to global realities through the various social outreach initiatives of the institution.	1.485	Exploring through documentation



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PSO1	Analysing, evaluating, and synthesizing ideas and information gathered through design thinking and application into conceptualisation of design modules by consideration of alternative perspectives.	1.680	Use of advance tools.
PSO2	The knowledge and ability to apply a design decision-making through different aspects from concerned stake holders and appropriate technology.	1.520	Learn construction as an industry
PSO3	Establish application of knowledge through applied research by raising clear and precise questions and considering diverse points of view, to reach well-reasoned conclusions and evaluate options against relevant design criteria, building standards, and program requirements.	1.609	Research based assignment with data handling




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SEMESTER 1




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Date :

Program	: First Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional (150 marks)												
Course	: Architectural Design Studio 1												
Course Code	: BARC101												
Semester/Faculty	: 1/Ar.Justin Thomas/Pragya A.												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	1.5	2	-	-	-	-	-	2	-	-	3	2.3
CO2	3	2	2	1	-	-	1.5	-	-	1.5	2	2	1.87
CO3	2	2	2.5	2	2	1.5	-	2	2	2	2	1.5	1.95
CO4	2	2	-	2.5	1.5	-	-	3	-	-	-	2	2.16
CO5	1.5	1.5	2	-	-	-	-	1.5	-	1.5	1.5	2	1.64
CO6	2	2	2.5	3	-	2	-	2	1.5	2	2	2	2.1
Avg. PO	2.250	1.833	2.200	2.125	1.750	1.750	1.500	2.125	1.83	1.750	1.870	2.100	2.00
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement							Final CO Attainment		Corrective Measures			
CO1	Understanding anthropometry and its relation to spaces.							1.9100		More practical exercises needs to be added.			
CO2	Students should understand the scales and proportions through practical exercises and theory.							1.9130		More practical exercises needs to be added.			
CO3	Understanding context and space for creating design form.							1.9510		Additional lectures needs to be added.			
CO4	Students should be exposed to architects, their works and style though text, drawings and pictures.							1.9410		Arranging experts lecture. Detailed study on architects work.			
CO5	Applying principles, concepts and fundamentals of basic design to architectural design project.							1.9910		Common lecture for both subjects.			
CO6	Develop appropriate graphic skills and presentation techniques to explain the project.							2.0960		Remedial classes and one-to-one interaction			
Average Percentage CO Attainment								78.68% ✓					





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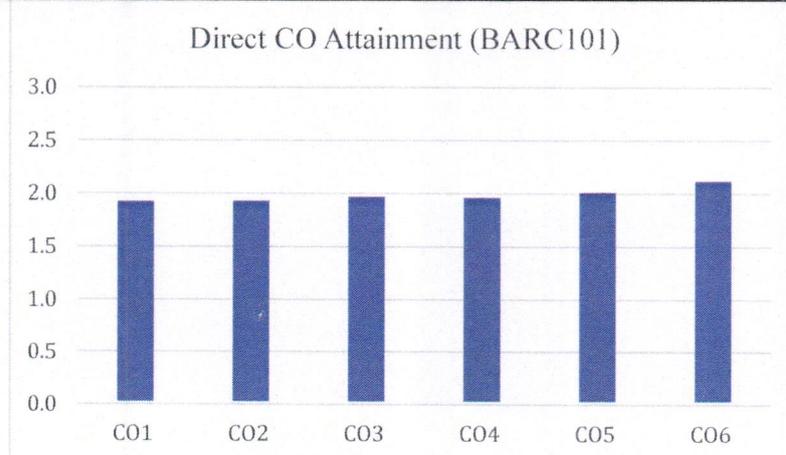
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PO-PSO Attainment		
PO	PO Attainment	Corrective Measures
PO1	1.4753	Bridging gap between theoretical and practical knowledge
PO2	1.2021	Arranging experts lecture.
PO3	1.4425	Increase in number of case studies.
PO4	1.3933	Use of digital tools
PO5	1.1474	Field work for awareness.
PO6	1.1474	Training students and creating awareness to engage in social outreach initiatives to implement eco-friendly practices.
PO7	0.9835	Introducing assignments and activities in group of students.
PO8	1.3933	Communication with experts.
PO9	1.2021	Create environmentally friendly built forms.
PSO1	1.1474	Case studies and interaction with experts.
PSO2	1.2294	Interaction with experts and hands-on exercises.
PSO3	1.3769	Addition of Practical Knowledge
Average % PO & PSO Attainment		65.68 % & 65.74 %



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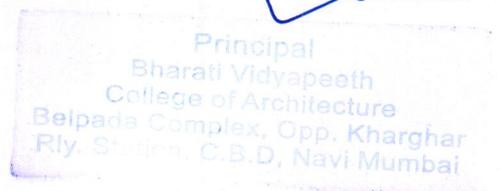
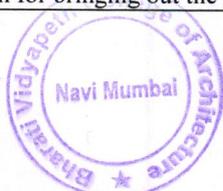
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Program		: First Year B.Arch											
Year		: 2022-2023											
Examination Scheme		: Internal/ Sessional (150 Marks)											
Course		: Allied Design Studio 1											
Course Code		: BARC102											
Semester/Faculty		: 1/Ar.Juili Puri/Amod Karmaksha											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	2.5	-	-	-	-	-	2.5	2.5	-	2.5	2.60
CO2	2	-	3	-	-	-	-	-	3	2	-	2.5	2.50
CO3	3	-	2.5	-	-	-	-	-	2.5	2	-	2	2.4
CO4	3	-	2	-	-	-	-	-	3	2.5	-	2.5	2.6
CO5	2.5	-	2.5	-	-	2.5	3	2.5	2.5	2.5	-	2.5	2.562
CO6	3	-	3	-	-	-	-	-	2.5	2.5	-	2.5	2.7
CO7	2.5	-	2.5	-	-	2.5	-	-	3	3	-	2.5	2.66
CO8	3	-	2.5	-	-	2	2.5	-	2.5	2.5	-	2.5	2.5
Avg. PO	2.67	-	2.56	-	-	2.33	2.75	2.50	2.69	2.44	-	2.44	2.565
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	The students should be able to appreciate the visual design elements such as points, lines, planes, shapes, forms, space, colour and texture.		2.30		Problem based assignment								
CO2	The students should understand principles of designs like contrast, scale, proportion, rhythm etc.		1.93		Extra Classes, One to one discussion.								
CO3	The students should understand principles of similarity and self-similarity.		1.40		Remedial Classes for Revision.								
CO4	Students should be able to demonstrate space making through the basic elements of design and principles of composition.		1.93		Extra Classes, One to one discussion.								
CO5	Students should be exposed to sources of inspiration for bringing out the creativity.		2.20		Extra Classes, One to one discussion.								





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CO6	The students should be able to understand the application of principles of design like Balance, Movement, Rhythm, Proportion, Scale, and Harmony in three-dimensional composition.	2.30	Problem based assignment
CO7	The students should be able to articulate the priorities of the objectives of design: aesthetics, order, efficiency and economy.	2.21	Extra Classes, One to one discussion.
CO8	The students should be able to orient study of Architecture as a design discipline.	2.20	Extra Classes, One to one discussion.
Average Percentage CO Attainment		80.26%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.82	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PO2	-	Remedial classes	
PO3	1.74	Remedial classes	
PO4	-	To redesign the structure of syllabus and to arrange certificate courses	
PO5	-	To redesign the structure of syllabus and to arrange certificate courses	
PO6	1.59	Remedial classes	
PO7	1.87	To redesign the structure of syllabus and to arrange certificate courses	
PO8	1.70	To redesign the structure of syllabus and to arrange certificate courses	
PO9	1.83	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PSO1	1.82	Site Visits, Bridge a gap between Theoretical and Practical Knowledge	
PSO2	-	Remedial classes	
PSO3	1.74	Field exposure to students	
Average % PO & PSO Attainment		68.06% & 72.95%	



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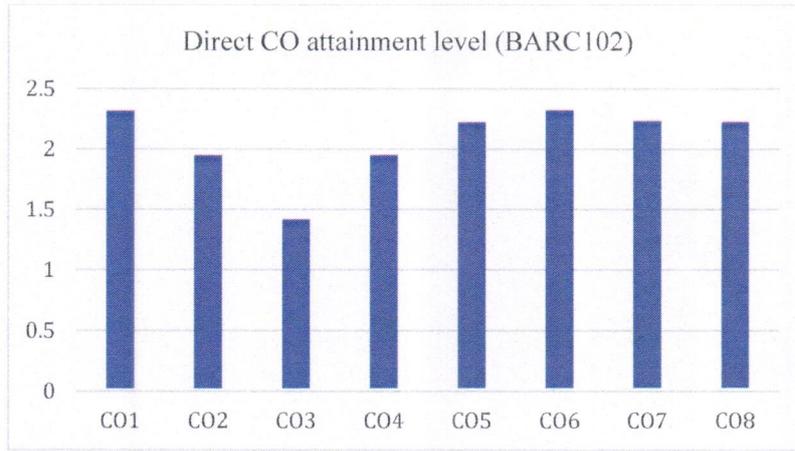
Founder :
Dr. Patangrao Kadam
 M.A.,LL.B.,Ph.D.

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

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

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

Date :



Program	: First Year B.Arch												
Year	: 2022-2023												
Examination Scheme	: Internal & Theory (150 Marks)												
Course	: Architectural Building Construction & Materials 01 (150 Marks)												
Course Code	: BARC103												
Semester/Faculty	: 1/Ar. Sangam Namwad/Tejas Nanavre												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	-	-	-	-	2	3	2.5	2.5	2.6
CO2	3	-	-	-	-	-	-	-	2	3	2.5	3	2.7
CO3	2.5	-	2	-	-	-	-	-	2	3	3	3	2.58
CO4	-	-	2	2	-	-	-	-	-	2.5	2.5	2.5	2.3
CO5	-	-	2.5	-	-	-	-	-	-	2.5	2	2.5	2.375
CO6	-	-	-	2.5	-	2.5	-	-	-	2	2	2	2.2
CO7	-	-	-	-	2	-	-	-	-	2	2	2	2.0
CO8	-	-	-	-	-	-	-	2	2	2.5	2.5	2.5	2.30
Avg. PO	2.833	-	2.163	2.250	2.0	2.5	-	2	2	2.562	2.375	2.50	2.381



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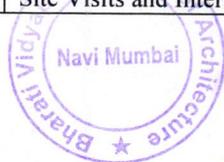
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Ref. No. : BV/COA/N.M./

Date :

Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation			
CO Attainment (Direct & Indirect method)			
CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Understanding of students in construction built form & building practice.	1.9464	Remedial Class
CO2	The students should understand the basic elements of buildings from substructure to superstructure.	1.9946	Giving more references of books, articles and authorized websites
CO3	The students should understand various structures and their typologies such as load bearing and framed structure.	1.5996	Site Visits, Interaction with user group to understand the reason behind migration
CO4	The knowledge of basic construction materials, their characteristics, occurrences or production, classification, bonds, properties and uses viz. stone, bricks	1.6040	Detailed case study discussions
CO5	Students should understand the materials properties such as density & specific gravity, strength, thermal properties etc.	1.6688	Increase in number of assignments
CO6	Student should understand Contextual relevance of construction of buildings by incorporation of Natural and artificial materials	1.6692	Increase in number of market survey.
CO7	Student should understand properties of different materials comprising various aspects like its technology, Aesthetic, Socio-Cultural, Socio-Economic, Ecology, green materials	1.7142	Increase in number of site visits
CO8	Student should understand representation of construction and joinery details in graphical representation	1.6910	Improvement in drafting and lettering.
Average Percentage CO Attainment			72.91%
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.6395	Remedial classes	
PO2	-	To redesign the structure of syllabus and to arrange certificate courses	
PO3	1.2538	Remedial classes	
PO4	1.3020	Remedial classes	
PO5	1.1573	Remedial classes	
PO6	1.4466	Remedial classes	
PO7	-	To redesign the structure of syllabus and to arrange certificate courses	
PO8	1.1573	Increase in drafting remedial classes	
PO9	1.1573	Increase in drafting & one to one interaction	
PSO1	1.4828	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PSO2	1.3743	Site Visits and Interaction with user group	





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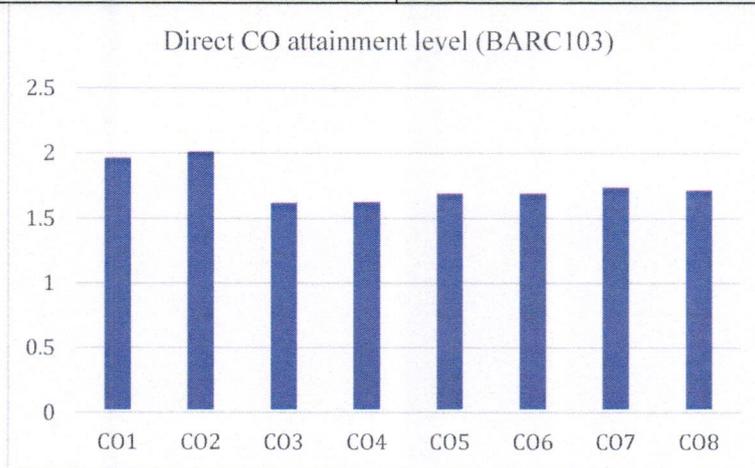
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PSO3	1.4466	Site Visits and Interaction with user group
Average % PO & PSO Attainment		57.87% & 58%



Semester	: First Year B.Arch												
Year	: 2022-2023												
Examination Scheme	: Internal & Theory paper (100 Marks)												
Course	: Humanities 1												
Course Code	: BARC105												
Semester/Faculty	: 1/Madhura Naik												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2	-	-	-	2	-	-	2	2	-	1	1	1.66
CO2	1.5	-	-	-	2	-	-	1.5	1.5	-	1.5	1.5	1.58
CO3	1.5	-	-	-	1.5	-	-	1.5	1.5	-	1.5	2	1.58
CO4	2	-	2	-	2	-	-	2	2	-	2	1.5	1.92
CO5	1.5	2	-	-	1.5	-	-	2	1.5	-	2	2	1.78
CO6	3	-	2.5	-	-	-	-	2	-	-	2.5	2.5	2.5
Avg. PO	1.916	2.0	2.25	1.80	-	-	1.83	1.70	-	1.75	1.75	1.836	





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Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 – No Correlation			
CO Attainment (Direct & Indirect method)			
CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	The students should comprehend the Importance of Humanities in Architecture and how humans have evolved since the prehistoric era.	1.5	Remedial Classes for Revision.
CO2	The students should understand the fundamentals of Formation of societies from Prehistoric period to modern times.	1.52	Demonstration of the study through Documentaries.
CO3	The students should learn History of culture for understanding human cultural development, products and sociology.	1.572	Problem Based Assignment.
CO4	The students should be able to identify ways to more effectively utilize the traditional knowledge systems.	1.422	AV tools to be used.
CO5	The student should be acquainted with earliest evidence of human history in India and how does that compare with other parts of the world.	1.318	Remedial Classes for Revision.
CO6	Students should be able to illustrate timelines and use them as a tool to understand chronology.	1.324	Remedial Classes for Revision.
Average Percentage CO Attainment			
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	0.919	Site Visits to Heritage locations to bridge a gap between theoretical and practical knowledge.	
PO2	0.96	Demonstration of the study through Documentaries.	
PO3	1.08	Problem Based Assignment.	
PO4	-	-	
PO5	0.864	Remedial Classes for Revision.	
PO6	-	-	
PO7	-	-	
PO8	0.8748	Remedial Classes for Revision.	
PO9	0.816	Remedial Classes for Revision.	
PSO1	-	-	
PSO2	0.84	Remedial Classes for Revision.	
PSO3	0.84	Remedial Classes for Revision.	
Average % PO & PSO Attainment		47.96% & 56 %	




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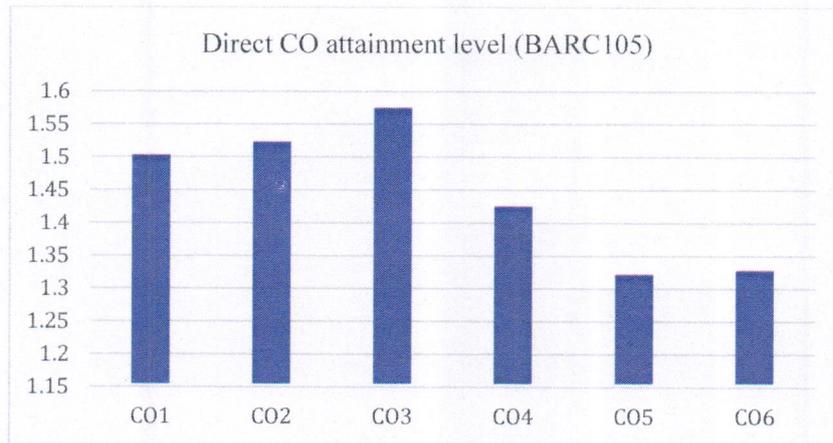
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SEMESTER 2




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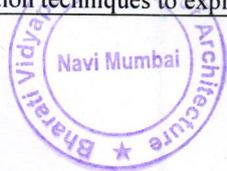
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Date :

Program		: First Year B.Arch											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional (150 marks)											
Course		: Architectural Design Studio 2											
Course Code		: BARC201											
Semester/Faculty		: 2/Ar.Pragya & Ar.Justin T.											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	3	2	-	2	2	-	3	2	3	3	3	2.36
CO2	3	3	3	2	-	-	2	-	-	3	-	2	2.57
CO3	2	2	2	-	2	2	-	-	-	2	-	-	2.0
CO4	3	3	2	2	2	2	-	2	-	3	-	3	2.44
CO5	3	3	3	2	-	-	-	3	2	2	2	2	2.44
CO6	3	3	3	2	-	2	-	2	-	3	3	-	2.62
Avg. PO	2.833	2.833	2.500	2.000	2.000	2.000	2.000	2.500	2.000	2.666	2.666	2.500	2.405
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Leaning and understanding the concept of architecture in context and architecture as environment.		2.0330		More theoretical lectures								
CO2	Introduction of project to students for designing of space for small groups with minor activities as program.		2.0430		More activities to be added								
CO3	Applying their understanding of climate and analysis on site and design.		1.9960		Additional theoretical / research.								
CO4	Introduction of case studies and its use in developing the project. This is through observation, analysis, documentation and deriving inferences.		2.0220		Additional case studies to be added.								
CO5	Students should understand quality of space and its application in their design through text, drawings, photographs, etc.		2.0860		Use of technology / digital medium.								
CO6	Develop appropriate graphic skills and presentation techniques to explain the project.		2.0190		Remedial classes and one-to-one interaction.								



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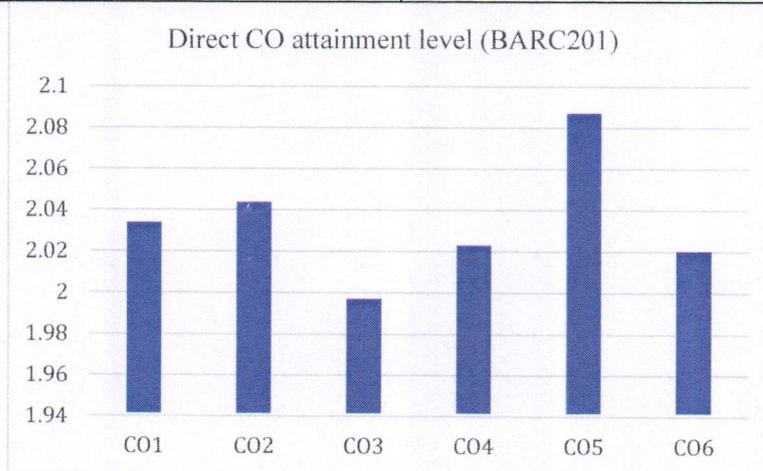
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Average Percentage CO Attainment		84.53%
PO-PSO Attainment		
PO	PO Attainment	Corrective Measures
PO1	1.9202	Bridging gap between theoretical and practical knowledge.
PO2	1.9202	Arranging experts' lecture. Remedial Classes
PO3	1.6943	Increase in number of case studies.
PO4	1.3554	Use of digital tools.
PO5	1.3554	Field work for awareness.
PO6	1.3554	Training students and creating awareness to engage in social outreach initiatives.
PO7	1.3554	Introducing activities in group of students.
PO8	1.6943	Communication with experts and research.
PO9	1.3554	Create environmentally friendly design.
PSO1	1.8073	Case studies and interaction with experts.
PSO2	1.8073	Hands-on exercises.
PSO3	1.6943	Addition of Practical and theoretical Knowledge
Average % PO & PSO Attainment		63.66% & 58.98%




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Date :

Semester		: First Year B.Arch											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory paper (150 marks)											
Course		: Architectural Building Construction											
Course Code		: BARC203											
Semester/Faculty		: 2/Ar.Sangam & Ar.Tejash											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	-	-	2.5	3	-	2	2	2.5	2.500
CO2	3	-	3	2.5	-	-	-	-	-	2	2	2	2.416
CO3	2.5	-	-	2.5	-	2.5	-	-	2.5	2	2.5	2.5	2.428
CO4	2.5	-	2.5	3	-	2	-	-	-	2	3	3	2.142
CO5	2	-	-	-	-	2.5	-	-	3	2	2.5	2.5	2.416
CO6	-	-	2.5	2	-	-	-	-	3	2	2	2.5	2.333
CO7	-	-	-	3	-	-	2.5	-	2.5	2.5	2	3	2.583
CO8	2	-	2	3	-	-	-	3	3	2.5	3	3	2.687
Avg. PO	2.5	-	2.5	2.667	-	2.333	2.5	3	2.8	2.125	2.375	2.625	2.438
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students should understand brick piers, stone fenestration construction details.		1.962		Make students better understand construction-built forms.								
CO2	Introduction of construction of arches, key elements and types in graphical representation		1.97		Make students understand better about partition walls								
CO3	Students should understand the external envelopes, internal partitions in various materials, walling systems, cavity walls, openings/ fenestrations, materials used for the same.		1.99		Making models and presentation of external façade								
CO4	Students to understand the structural consideration such as structural span, lintel.		1.45		Make market studies of materials used for partition wall								





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CO5	Students to understand types of openings and door construction details.	1.458	Make them understand opaque, translucent and transparency of the materials used.
CO6	Students should study the fenestration: opaque, translucent, transparent and the materials required.	1.418	Make students understand material syntax through experimentation purpose.
CO7	Students should understand importance of wood, plywood as a construction material	1.59	Make students understands the specification through experimentation method.
CO8	Students should understand specifications and quantities of materials in synchronization with the demands of the design program.	1.58	Make students understand the exact quantity of materials used for making frame structures.
Average Percentage CO Attainment		68.79%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.44	Give proper knowledge and understanding	
PO2	-	Give knowledge obtaining and development skills	
PO3	1.30	Improvement in the students design development.	
PO4	1.38	Teaching students' new tools for better understanding.	
PO5	-		
PO6	1.50	Make students understand the sustainability about the materials taught.	
PO7	1.43	Teach students better communication skills.	
PO8	1.59	Teach the above works in better understanding.	
PO9	1.47	Make students understand their responsibilities while using the skills and knowledge in practical world.	
PSO1	1.20	Make them understand the practical knowledge	
PSO2	1.35	Make student understand the decision-making process	
PSO3	1.49	give better understanding of research to be done	
Average % PO & PSO Attainment		50.565% & 50.50%	



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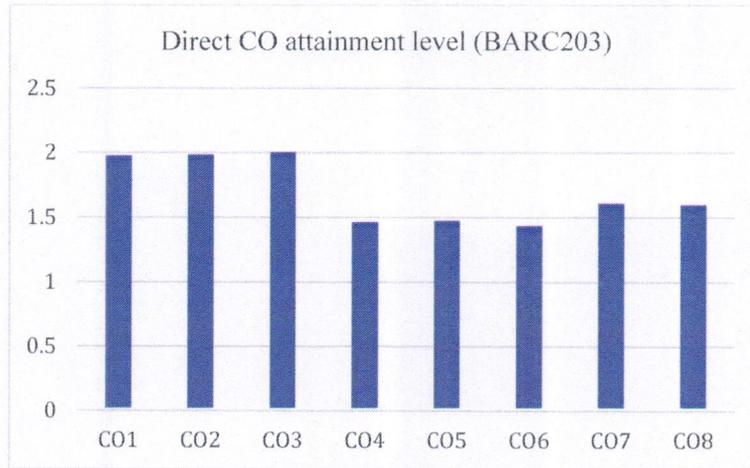
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Semester	: First Year B.Arch												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional & Theory paper (100 Marks)												
Course	: Theory & Design of Structures II												
Course Code	: BARC204												
Semester/Faculty	: 2/Er.Saira T.												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	2.5	2.5	-	-	-	-	-	-	2	2.5	2	2.41
CO2	3	2.5	2.5	-	-	-	-	-	-	2	2	2	2.33
CO3	3	3	2.5	-	-	-	-	-	-	2	2.5	2	2.5
CO4	3	3	2.5	-	-	-	-	-	-	2	2	2	2.41
CO5	2	2	2	-	-	-	-	-	-	2	2	2	2.0
CO6	2	2	2	-	-	-	-	-	-	2	2.5	2	2.08
Avg. PO	2.66	2.5	2.33	-	-	-	-	-	-	2.0	2.25	2.0	2.288
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													



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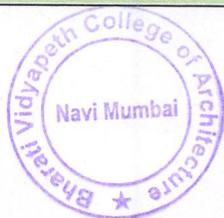
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CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Students should be able to calculate the reactions when beams are loaded with concentrated loads, uniformly distributed loads and uniformly varying loads and also a combination of the above mentioned loads	1.36	Site visits for more exposure for students
CO2	Students should be able to determine the centroid and Moment of Inertia of plane laminae.	1.36	Site visits for more exposure for students
CO3	Students should be able to determine simple stress, strains, elastic constants and the relationship between them	0.81	Remedial lectures
CO4	Students should be able to calculate the shear force and bending moment along any section of a loaded beam by applying the conditions of equilibrium.	1.37	Remedial lectures
CO5	The ability to understand and summarise the detailed techniques of preparing shear force diagrams and bending moment diagrams should be clear to the students	1.57	Remedial lectures
CO6	Students should be able to apply all the above topics like Moment of Inertia, Modulus of Elasticity and Bending Moment in The Theory of Simple Bending	2.11	Site visits for more exposure for students
Average Percentage CO Attainment		62.53%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.27	Site visits for more exposure for students	
PO2	1.19	Remedial lectures	
PO3	1.11	Remedial lectures	
PO4	-	Can implement certificate courses in the syllabus	
PO5	-	Can implement certificate courses in the syllabus	
PO6	-	Can implement certificate courses in the syllabus	
PO7	-	Can implement certificate courses in the syllabus	
PO8	-	Can implement certificate courses in the syllabus	
PO9	-	Can implement certificate courses in the syllabus	
PSO1	0.95	Site visits	
PSO2	1.07	Remedial classes	
PSO3	0.95	Site visits	
Average % PO & PSO Attainment			





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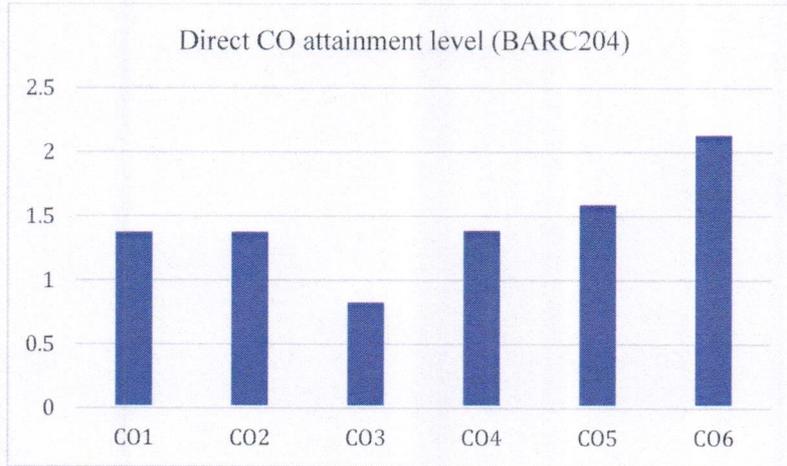
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Principal
Prof. Satish Dhale
 (G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

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Date :



Semester	: First Year B.Arch												
Year	: 2022-2023												
Examination Scheme	: Sessional & Theory paper (150 Marks)												
Course	: Architectural Representation & Detailing												
Course Code	: BARC207												
Semester/Faculty	: 2/Ar.Anandi & Ar.Sanskriti												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	--	-	-	-	-	2.5	3	3	-	-	2.875
CO2	3	2.5	-	-	-	-	-	2.5	3	3	2.5	-	2.750
CO3	3	2.5	-	-	-	-	-	2.5	3	3	2.5	-	2.750
CO4	3	2	-	-	-	-	-	2.5	3	3	2.5	-	2.666
CO5	3	3	-	-	-	-	-	2.5	2.5	3	2.5	-	2.750
CO6	3	2	-	-	-	-	-	2.5	3	3	2.5	-	2.666
CO7	3	3	3	-	-	-	-	3	3	3	2.5	-	2.925
CO8	3	3	3	-	-	-	-	3	3	3	2.5	3	2.937
Avg. PO	3.0	2.571	3.0	-	-	-	-	2.625	2.938	3.0	2.50	3.0	2.789





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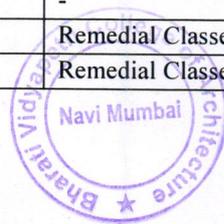
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Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 – No Correlation			
CO Attainment (Direct & Indirect method)			
CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Drawing-Principles and techniques of Orthographic Projections of object/objects in different positions.	2.05	Repetitive assignments in every studio
CO2	Techniques of drawing complex projections such as section plane in different angles, drawing of true section by slicing method.	1.727	Repetitive assignments in every studio
CO3	Surface development and interpenetration of solids.	1.723	Repetitive assignments in every studio
CO4	Understand the techniques of drawing one point & two point perspective views, apply the knowledge in solving various problems on solids and represent graphically.	1.871	Practice sessions
CO5	Develop appropriate graphic skills and technical drawings which is helpful to explain the contents of a design.	2.056	Practice sessions
CO6	Understand the techniques of drawing shades & shadows, apply the knowledge in solving various problems on points, lines, planes, solids and represent graphically.	2.012	Practice sessions, Interaction with field experts
CO7	Students will combine their knowledge of various graphical techniques and sketching to present their ideas for developing, discussing and building their design.	1.906	Practice sessions, Interaction with field experts
CO8	Recognizing the buildings perspectives. Develop perception and presentation of architectural forms and buildings	1.417	Practice sessions, Interaction with field experts
Average Percentage CO Attainment		66.16%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	3	Remedial Classes	
PO2	2.571	Remedial Classes	
PO3	2.8	Remedial Classes	
PO4	-	-	
PO5	-	-	
PO6	-	-	
PO7	2	Remedial Classes	
PO8	2.763	Remedial Classes	





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PO9	2.938	Remedial Classes
PSO1	1.845	Remedial Classes
PSO2	1.499	Remedial Classes
PSO3	1.845	Remedial Classes and interaction with field experts
Average % PO & PSO Attainment		68.75% & 57.66%




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Second Year Report - PO & PSO Attainment & Corrective Measures (2022-2023)

PO	PO Statement	Attainment Value	PO Corrective Measures
PO1	Inquiry based mediated experiential learning through rigorous understanding about academic knowledge domains such as Arts, Technology, Science and Environment / Sustainability.	1.432	Brief to be deliberated with sensitivity of scale
PO2	The reflective learning orients the students towards questioning the knowledge obtained and develop skills to chisel their problem-solving capacity.	1.199	Case study based enquiry development
PO3	Nurturing students' ability to translate concepts through creativity and technological aspects into tangible and intangible forms.	1.203	More hand holdings in selective solutions
PO4	Imparting education through advanced tools which sensitize the students to strengthen their visualisation skills and imagine the outcome before reality.	1.239	Encourage sketching and 3D visualisation
PO5	The education and knowledge imparted in the institution instils professional competencies and ethical values in students to provide them the appropriate skills and confidence to engage them in positions of social responsibilities as well as creating a sustainable society with inclusive approach of design respecting the Indian ethos and cultural values.	1.370	Scenario narratives to be made from end to end
PO6	Students are trained to engage in social outreach initiatives to implement best practices in environment conservation and sustainability through employing knowledge and skills.	1.206	Visit to Govardhan Eco village
PO7	The initiative of learning by exploring and case-based learning equips the students to work collaboratively to achieve personal and professional goals	0.919	Documenting study tour work
PO8	The role of an architect today is to communicate effectively his/ her ideas to benefit the society at large and the institution aims at imparting this capacity.	1.096	Expert talk
PO9	The concept of integration of diverse perspectives connecting local to global realities through the various social outreach initiatives of the institution.	1.413	Visit exhibition





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PSO1	Analysing, evaluating, and synthesizing ideas and information gathered through design thinking and application into conceptualisation of design modules by consideration of alternative perspectives.	1.153	Case study in detail and critical understanding
PSO2	The knowledge and ability to apply a design decision-making through different aspects from concerned stake holders and appropriate technology.	1.072	Learn from impact Assessment documents and other government websites
PSO3	Establish application of knowledge through applied research by raising clear and precise questions and considering diverse points of view, to reach well-reasoned conclusions and evaluate options against relevant design criteria, building standards, and program requirements.	1.336	Learn from research paper study




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SEMESTER 3




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Date :

Program	: Second Year B.Arch.
Year	: 2022-2023
Examination Scheme	: Internal/Sessional & Jury (200 Marks)
Course	: Architectural Design Studio 03
Course Code	: BARC301
Semester/Faculty	: 3/Ar.Suchita & Ar.Anshul

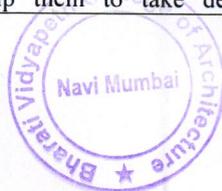
CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	3	2	-	3	2.5	2	2	3	3	2.5	2.5	2.590
CO2	3	2	2.5	-	2	1.8	-	2.2	3	3	3	1.5	2.400
CO3	3	-	2	2.2	-	1.5	2	-	-	2	3	1	2.087
CO4	3	2.3	2.5	2.2	-	3	-	2	3	3	3	2	2.600
CO5	3	2	2.5	1.7	1.5	-	-	-	2.5	2.5	1	1.7	2.833
CO6	3	2	2.5	1.5	-	2	3	2.5	3	3	2	1	2.318
CO7	3	2.3	3	1.5	-	-	-	-	3	2.7	2.5	3	2.625
CO8	3	2.5	-	3	-	-	-	2.3	2	3	1	3	2.475
Avg. PO	3	2.3	2.42	2.01	2.16	2.16	2.33	2.2	2.78	2.77	2.25	1.96	2.491

Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation

CO Attainment (Direct & Indirect method)

CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Introduction to socio-cultural aspects like lifestyle, culture, traditions and their effect on architectural design. Also to understand the Aesthetic aspects of Design along with spatial attributes (scale and proportions, volumes, textures, light and shadows etc.) and formal characteristics.	1.3572	Extra classes, one to one interaction.
CO2	Introducing students to learn from case, referral, and live studies - process of observation, analysis, and documentation and deriving inferences.	1.3632	Revision to be taken.
CO3	Conduct site visits to understand the site and its context, documentation through the medium of text, photography, sketches, drawings etc. which will help them to take decisions of zoning,	1.3472	Remedial Classes.





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	circulation within site, distribution of built and open spaces, activity relationships and adjacencies and views.		
CO4	Students should understand the climatic aspects those have a bearing on architectural design and address climatic concerns like adequate light, ventilation, protection from rain, insulation, shading, heat gain through passive strategies.	1.4112	Mock Tests.
CO5	The students to apply the knowledge of building services to the design problem. Implications of basic services involved in building design along with the concept and principles of universal design.	1.3252	Old Question paper solving.
CO6	Synthesize the working culture of vertical studio - conducted with semester 3 students	1.3952	Extra Classes.
CO7	Implicate knowledge of design fundamentals and knowledge gained in other subjects to develop better design solutions.	1.4052	Mock Tests to be conducted.
CO8	Develop appropriate graphic skills and presentation techniques (models, rendering) to explain the contents of a design.	1.4412	Extra classes.
Average Percentage CO Attainment		55.39%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.38	Individual Approach	
PO2	1.058	Site Visits	
PO3	1.104	More hands-on approach	
PO4	0.924	Remedial classes	
PO5	0.993	Site Visits	
PO6	0.993	Counselling	
PO7	1.0718	Workshops and seminars	
PO8	1.012	Remedial classes	
PO9	1.2788	Collaborative Studio	
PSO1	1.27	Improvement in syllabus	
PSO2	1.035	Additional field Visits	
PSO3	0.64	Joint Studios / Collaboratives studio	
Average % PO & PSO Attainment		36.45%	





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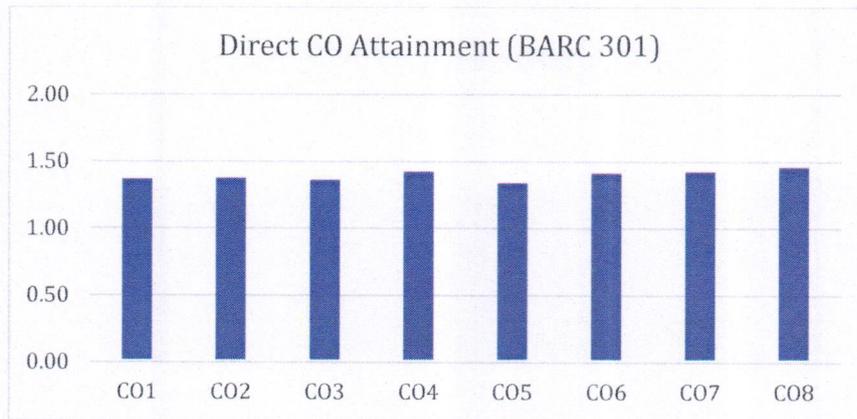
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Date :



Program		: Second Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory paper (100 Marks)											
Course		: Architectural Building Construction 03											
Course Code		: BARC303											
Semester/Faculty		: 3/Ar.Pooja & Ar.Ar.Milind											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	2	1	-	-	-	-	-	-	2	-	2	2.000
CO2	3	-	-	-	-	-	-	-	-	2	-	-	2.500
CO3	-	-	3	-	-	-	-	-	-	3	-	-	3.00
CO4	-	2	-	-	-	-	-	-	-	-	-	3	2.500
CO5	-	3	-	3	-	-	-	-	2	-	-	-	2.666
CO6	2	-	-	-	-	-	-	-	-	2	2	2	2.000
Avg. PO	2.667	2.333	2	3	-	-	-	-	2	2.250	2	2.333	2.443
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													



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Date :

CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Students will be able to relate various Structural RCC Components such as Plinth and Ground. Beams, Foundation and materials such as Concrete, Flooring, Roofing etc.	1.740	Increase in number of assignments
CO2	The students will be able to understand the various Prerequisites and Designing of RCC Structural components and types of materials such as concrete, flooring, roofing, door types depending upon various factors such as Soil, loading and materials.	1.625	Increase in number of assignments
CO3	Students should be able to choose the appropriate type of RCC Components such as types of Beams, Slabs, Staircases and Material such as Concrete, flooring, roofing, doors etc.	1.449	Remedial Classes
CO4	Students should be able to examine and compare various building materials used in RCC Construction such as steel, concrete types etc.	1.398	Conducting site Visits
CO5	Student should be able to interpret and evaluate various construction technologies as per site situations. Student will be able to adapt appropriate construction and working details for a RCC building component and finishing components such as flooring, roofing etc.	1.463	One to One interaction.
CO6	Understanding the entire process of RCC construction from foundation till roof.	1.196	Remedial Classes
Average Percentage CO Attainment		60.51%	

PO-PSO Attainment

PO	PO Attainment	Corrective Measures
PO1	1.314	Remedial Classes
PO2	1.150	Site Visits to Bridge a gap between Theoretical and Practical Knowledge
PO3	0.986	One to one interaction.
PO4	1.479	Remedial Classes.
PO5	-	To redesign the structure of syllabus and to arrange certificate courses
PO6	-	To redesign the structure of syllabus and to arrange certificate courses
PO7	-	To redesign the structure of syllabus and to arrange certificate courses



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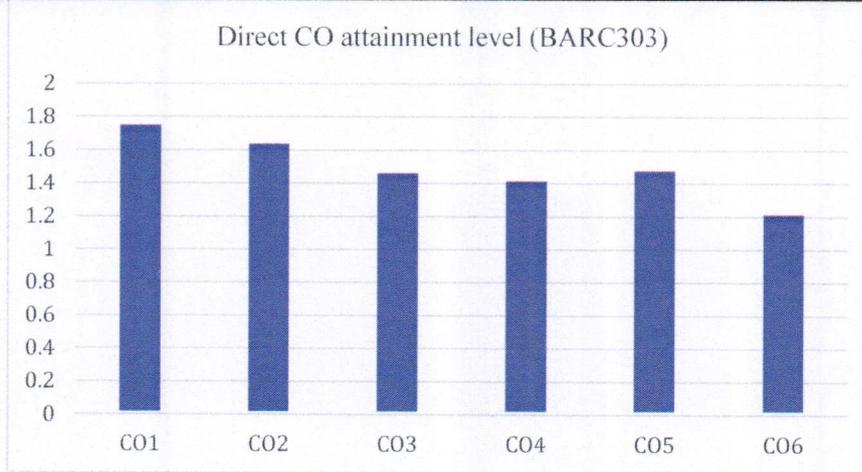
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Date :

PO8	-	To redesign the structure of syllabus and to arrange certificate courses
PO9	0.986	One to one interaction along with increase in the number of assignments
PSO1	0.547	One to one interaction along with increase in the number of assignments
PSO2	0.486	One to one interaction along with increase in the number of assignments
PSO3	2.333	Increase in number of assignments
Average % PO & PSO Attainment		40.25% & 38.25%



Program	: Second Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional & Theory paper (100 marks)												
Course	: Theory & Design of Structures 03												
Course Code	: BARC304												
Semester/Faculty	: 3/Dr.Deepak												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	2	1.5	-	-	-	-	-	-	2.5	3	3	2.500
CO2	2.5	-	2	-	-	-	-	-	-	2.5	3	3	2.600
CO3	3	-	2	-	-	-	-	-	-	1.5	2	2	2.100





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CO4	3	2	2	-	-	-	-	-	3	2	2	2	2.285
CO5	-	-	-	-	-	3	-	-	3	3	3	3	3.000
CO6	-	-	-	-	-	-	-	-	3	3	3	3	3.000
Avg-PO	3	2	1.5	-	-	-	-	-	2.5	3	3	3	2.580

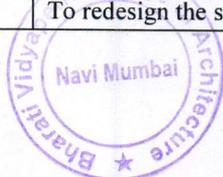
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation

CO Attainment (Direct & Indirect method)

CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Students able to understand and analyse the basic theories and principles of structural Analysis through general basic concepts.	1.7892	Extra classes, One to one interaction.
CO2	Students able to understand concept of simple bending theory of beams (concrete, timber, steel) and its application.	1.7892	Increase in number of assignments
CO3	Students able to understand the concept of deflection in SSB and cantilever beams and its application in structural planning.	1.4047	Increase in number of assignments
CO4	To determine combined stresses in structural elements i.e. Beam, column, footing and influence of stresses in design of footing and its application in structural analysis and design	1.3973	Increase in number of assignments
CO5	Study of structural properties of materials and its grades, used in structures and its behaviour under different loading conditions and understanding the behaviour of structural elements. Overview of response of structure under various loading conditions.	1.0938	Industrial visits to bridge a gap between theoretical and practical knowledge.
CO6	Conceptual Understanding of tension and compression zones in structural elements through SFD and BMD and concept of placing reinforcement in concrete.	1.1242	Crash course at the end semester before examination
Average Percentage CO Attainment		55.54%	

PO-PSO Attainment

PO	PO Attainment	Corrective Measures
PO1	1.373	Site Visits to Bridge a gap between Theoretical and Practical Knowledge
PO2	0.955	Remedial classes
PO3	0.895	Remedial classes
PO4	0	To redesign the structure of syllabus and to arrange certificate courses
PO5	0	To redesign the structure of syllabus and to arrange certificate courses





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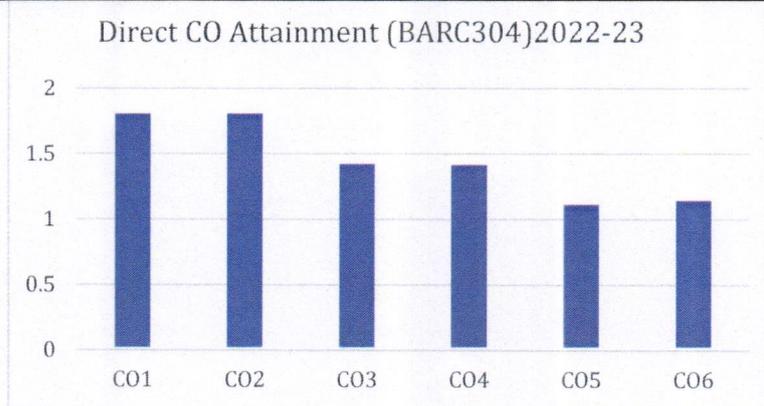
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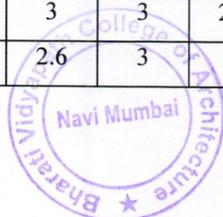
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PO6	1.433	Remedial classes
PO7	0	To redesign the structure of syllabus and to arrange certificate courses
PO8	0	To redesign the structure of syllabus and to arrange certificate courses
PO9	1.433	Site Visits to Bridge a gap between Theoretical and Practical Knowledge
PSO1	1.1540	Site Visits, Bridge a gap between Theoretical and Practical Knowledge
PSO2	1.2734	Remedial classes
PSO3	1.2734	Field exposure to students
Average % PO & PSO Attainment		44.00%



Program	: Second Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional (100 marks)												
Course	: Architectural Representation & Detailing												
Course Code	: BARC307												
Semester/Faculty	: 3/Ar.Tejash & Ar.Tushar												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2.3	2.2	2.5	2.8	2.65	-	-	-	2.6	2.7	2.8	2.3	2.538
CO2	2.8	3	2.9	2.6	2.8	-	-	-	2.6	2.7	2.8	2.8	2.777
CO3	2.7	2.9	3	3	2.8	-	-	-	2.6	2.7	2.8	2.7	2.800
CO4	2.65	3	2.6	3	-	2.7	-	-	2.6	2.7	2.8	2.65	2.744



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CO5	2.4	2.68	2.77	3	-	3	-	-	2.6	2.7	2.8	2.4	2.705
CO6	2.8	3	3	2.7	-	2.95	-	-	2.6	2.7	2.8	2.8	2.816
Avg. PO	2.608	2.796	2.795	2.85	2.75	2.883	-	-	2.600	2.700	2.800	2.608	2.730

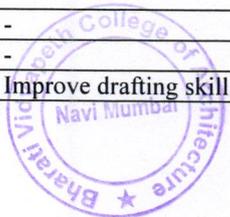
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation

CO Attainment (Direct & Indirect method)

CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Students learn to develop previous technical drafting skills with simple three dimensional objects and building components through Technical Drawings.	1.90	Make them understand with 3d model and torch light.
CO2	The students shall be able to understand principles of perspective drawings & principles of sciography sketching by technical methods.	1.90	Improving their drafting skills
CO3	To produce architectural objects by applying method of exterior and interior perspective & sciography drawings.	1.91	Make better understanding of perspective views
CO4	Student should acquire graphic skills to present a building, analyse its elements and explain the composition.	1.91	Make one-point perspective easier to understand.
CO5	The course should prepare the students to construct their own set of architectural drawings explaining their design. An important tool to design and execute their projects	1.89	Make them understand the perspectives easier to understand.
CO6	Students shall able to construct conceptual & presentation drawings in all subjects.	1.87	Make better understanding of shadows and siography, through model on plan and elevation.
Average Percentage CO Attainment		69.47%	

PO-PSO Attainment

PO	PO Attainment	Corrective Measures
PO1	1.78	Remedial classes
PO2	1.78	Remedial classes
PO3	1.83	Remedial classes
PO4	1.78	Remedial classes
PO5	1.88	Remedial classes
PO6	1.78	Remedial classes
PO7	-	-
PO8	-	-
PO9	-	-
PSO1	1.63	Improve drafting skills and perspectives





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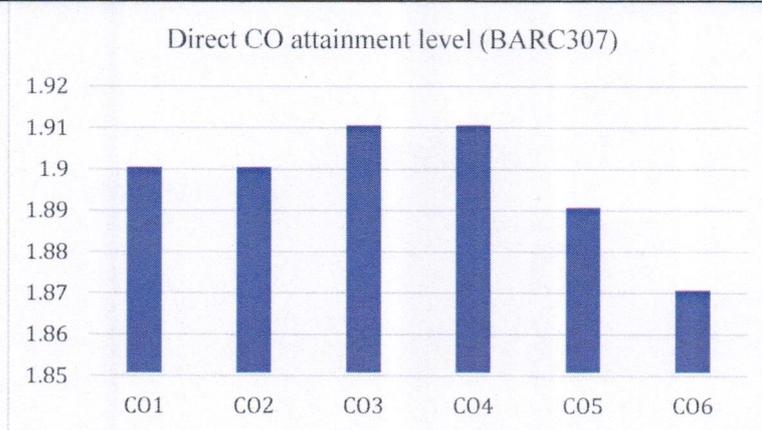
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PSO2	1.69	Understanding through models
PSO3	1.76	understanding the perspectives and height if shadows of the plan and 3D views.
Average % PO & PSO Attainment		60.16% & 56.44%




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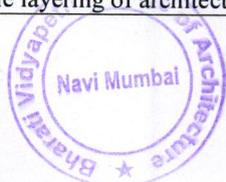
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Program		: Second Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional (200 marks)											
Course		: Architectural Design Studio 04											
Course Code		: BARC401											
Semester/Faculty		: 4/Ar.Suchita & Ar.Anshul											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	3	1.7	-	3	2.3	2.4	2.5	3	3	2	2.5	2.581
CO2	2	2	2.5	-	2	1.7	-	-	2.7	2.6	1	2	2.055
CO3	3	-	2	3	2	2.5	2.3	-	-	1.7	3	3	2.500
CO4	3	2.3	2.5	2	2	3	-	-	3	3	3	2	2.580
CO5	3	2	2	1.7	-	1.5	-	2	2.5	2	2	1.6	2.030
CO6	2	1.9	2.5	1.5	-	2	3	2.5	2.5	1	2	1	1.990
CO7	3	2	2.3	1.5	-	-	-	-	1.8	2	2.5	3	2.265
CO8	3	2.5	-	3	-	-	-	2.3	2.3	3	1	3	2.512
Avg. PO	2.75	1.33	1.93	1.58	1.12	1.62	0.96	1.16	2.22	2.28	2.06	2.26	2.314
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students will be able to find out and select attributes of Architectural character through application of indigenous materials, construction technology from the documentation of a settlement in different regional and climatic context.		1.61		Extra classes, one to one interaction.								
CO2	Students will be able to comprehend site specific stimuli through responses to physical, climate, visual, cultural contexts from the documentation of a settlement in different regional and climatic context.		1.61		Revision to be taken.								
CO3	Students will be able to apply zoning, activity distribution, circulation and activity relationships to multiple layering of architectural space		1.60		Remedial Classes.								





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CO4	Students will be able to analyse passive solar responses and fenestration design from settlement study to test them in their own designs.	1.64	Mock Tests.
CO5	Students will be able to appraise function and space studies as well as defined user group specific perception of space and compare it with their own design solutions	1.63	Old Question paper solving.
CO6	The course should prepare the students to develop their own suitable design language for architectural design of multicellular, multiple level spaces by application of principles of functionality, climate, composition, and aesthetics.	1.64	Extra Classes.
CO7	Analyse the operational atmosphere of the vertical studio involving students in their fourth semester.	1.63	Mock Tests to be conducted.
CO8	Acquire the necessary graphic abilities and presentation techniques (including modelling and rendering) to effectively illustrate the concepts within a design.	1.65	Extra classes.
Average Percentage CO Attainment		70.27%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.49	Individual Approach	
PO2	0.72	Counselling	
PO3	1.04	More hands on approach	
PO4	0.85	Remedial classes	
PO5	0.60	Site Visits	
PO6	0.87	Collaborative Studio	
PO7	0.52	Workshops and seminars	
PO8	0.62	Remedial classes	
PO9	1.20	Introducing allied technologies and mediums to understand better	
PSO1	1.23	Field Exposure	
PSO2	1.11	Collaborative Studio	
PSO3	1.22	Remedial classes	
Average % PO & PSO Attainment		41.63 % & 39.55%	



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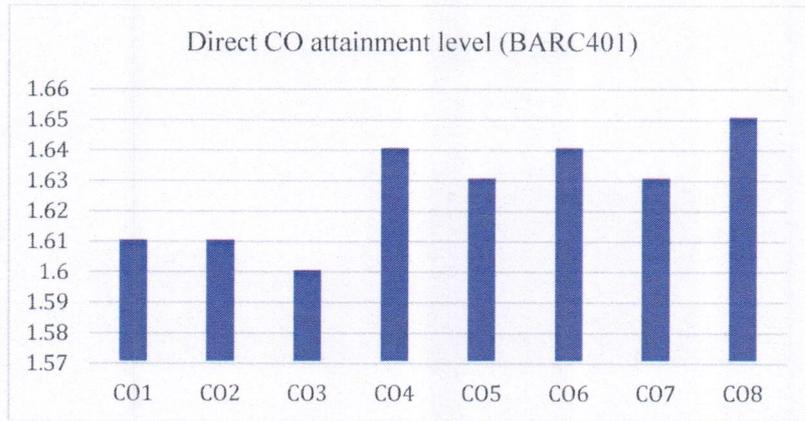
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Program	: Second Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional & Theory paper (100 Marks)												
Course	: Architectural Building Construction												
Course Code	: BARC403												
Semester/Faculty	: 4/Ar.Pooja & Ar.Milind												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	-	-	-	-	-	1	2	-	2.000
CO2	2	3	-	-	-	-	-	-	-	2	-	3	2.500
CO3	3	3	-	2	-	-	-	-	-	3	-	-	2.750
CO4	3	2	-	-	-	-	-	-	-	2	-	3	2.500
CO5	2	3	-	-	-	-	-	-	2	2	-	2	2.200
CO6	2	2	2	-	-	-	-	-	-	2	-	3	2.200
Avg. PO	2.5	2.6	2	2	-	-	-	-	2	2	2	2.75	2.358
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 – No Correlation													
CO Attainment (Direct & Indirect method)													





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CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Introduce students to structural framing in steel for low rise medium span buildings.	1.726	Remedial classes
CO2	Students should understand the methods of construction of various components of steel structures like foundation system, flooring systems, wall cladding systems.	1.683	Conducting site Visits
CO3	Understanding the roofing system, concept of trusses for low rise medium span buildings.	1.486	Remedial classes
CO4	Students should know about the moisture and fire protections in steel framed low rise medium span buildings.	1.789	One to One interaction.
CO5	Understanding the entire system of RCC framework starting from foundation till the roof.	1.776	Increase in number of assignments
CO6	Students should know the construction Process of both framed structures and Steel structures.	1.634	Increase in number of assignments
Average Percentage CO Attainment		71.34%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.402	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PO2	1.458	Increase in number of assignments	
PO3	1.121	One to One interaction.	
PO4	1.121	One to One interaction.	
PO5	-	To redesign the structure of syllabus and to arrange certificate courses	
PO6	-	To redesign the structure of syllabus and to arrange certificate courses	
PO7	-	To redesign the structure of syllabus and to arrange certificate courses	
PO8	-	To redesign the structure of syllabus and to arrange certificate courses	
PO9	1.121	One to One interaction.	
PSO1	0.842	One to One interaction along with increase in no of assignments	
PSO2	0.842	One to One interaction along with increase in no of assignments	
PSO3	2.750	No Suggestion required	
Average % PO & PSO Attainment		51.85% & 63.34%	



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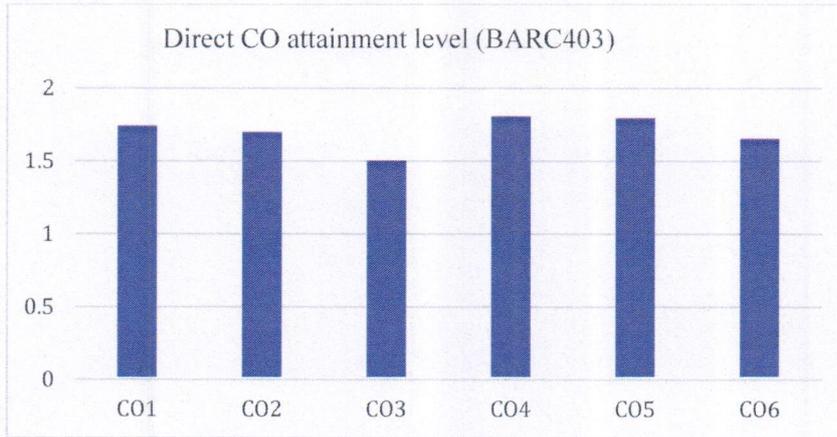
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Program	: Second Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional & Theory paper (100 marks)												
Course	: Humanities												
Course Code	: BARC405												
Semester/Faculty	: 4/Ar.Neha & Ar.Amit												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	3	-	-	2	-	-	2	-	2.500
CO2	3	-	1	-	3	-	-	2	-	-	2	-	2.200
CO3	3	-	-	-	3	-	-	2	-	2	2	-	2.400
CO4	3	-	-	-	3	-	-	-	-	-	2	-	2.666
CO5	3	2	-	-	3	-	-	-	-	-	2	-	2.500
CO6	3	-	-	-	3	-	-	-	-	-	2	-	2.666
Avg. PO	3	2	1	-	3	-	-	2	-	2	2	-	2.488
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													



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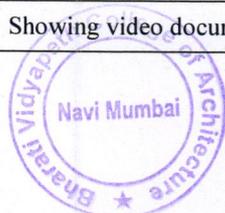
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CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Students will understand the organisation of kingdoms, art and architecture of the rock cut temples and hellenistic influence in the Indian subcontinent during early period of history. Understanding the origin of Hinduism, Vaishnavite, Shaivite traditions and its influence on the way of life and architecture.	1.726	Remedial classes
CO2	Comparing the different temple styles developed according to the regions like Nagara, Versara, Dravidian styles and Temple Towns	1.683	Conducting site Visits
CO3	Deducing the different temple styles and its evolution over the years with examples	1.486	Remedial classes
CO4	Analysing the impact of Islamic architecture in India, its rise and spread throughout the country. Students should also know the influence of Islamic architecture in India especially Delhi and provincials areas like Gujarat, Calcutta, Malwa, Deccan etc.	1.789	One to One interaction.
CO5	Comparing the development of new regional Islamic regional styles in India	1.776	Increase in number of assignments
CO6	Understanding the colonial influence on Indian Architecture with focus on structures in Bombay, Delhi, Calcutta, and Madras.	1.634	Increase in number of assignments
Average Percentage CO Attainment		63.90%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.59	Increase the number of assignments	
PO2	1.06	Remedial Classes to be held.	
PO3	0.53	Showing video documentaries historic places to understand and remember better.	
PO4	-	Increase the number of assignments	
PO5	1.59	Remedial Classes to be held.	
PO6	-	Showing video documentaries historic places to understand and remember better.	
PO7	-	Increase the number of assignments	
PO8	1.06	Remedial Classes to be held.	
PO9	-	Showing video documentaries historic places to understand and remember better.	





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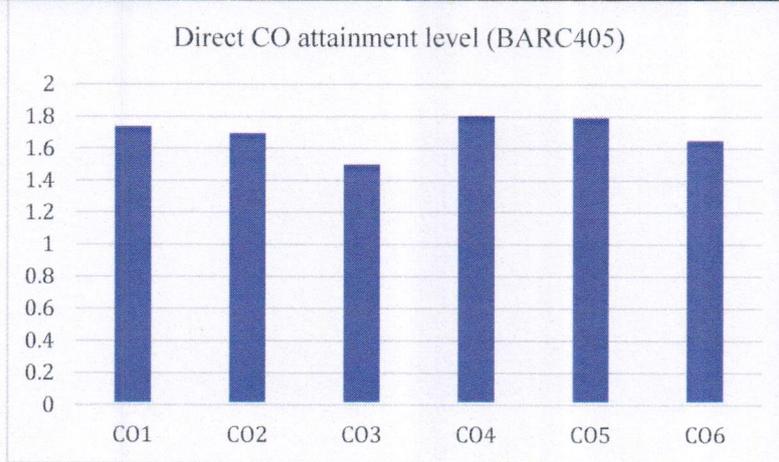
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PSO1	1.06	Remedial Classes to be held
PSO2	1.06	Remedial Classes to be held
PSO3	-	Remedial Classes to be held
Average % PO & PSO Attainment		38.86% & 35.33%



Program	: Second Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional & Theory paper (100 marks)												
Course	: Architectural Building Services												
Course Code	: BARC408												
Semester/Faculty	: 4/Ar.Kajol & Ar.Himika												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2	-	2	-	-	-	-	-	-	2	2	-	2.000
CO2	3	2	3	-	-	-	-	-	-	3	3	-	2.800
CO3	2	-	3	-	-	-	-	-	-	2	3	-	2.500
CO4	3	-	3	-	-	-	-	-	-	3	-	2	2.750
CO5	2	-	2	-	-	-	-	-	-	2	3	3	2.400
CO6	2	3	3	-	-	-	-	-	-	2	2	-	2.400
Avg. PO	2.3	2.5	2.7	-	-	-	-	-	-	2.3	2.6	2.5	2.475



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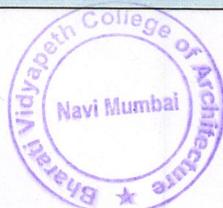
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Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation			
CO Attainment (Direct & Indirect method)			
CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Understanding the concept of Rain water harvesting and to know its calculations	1.74	Remedial Classes.
CO2	To Understand Basic principles of sanitation, collection and conveyance of waste matter from buildings, Quantity and quality of refuse, working and installation of sewers and sewer appurtenances.	1.64	Extra classes, One to one interaction.
CO3	Develop design skills for drainage in building and prepare architectural layouts	1.12	Question Paper Solving.
CO4	Demonstrate the understanding of basic calculations and sizing of service facilities in building	0.66	Mock Tests.
CO5	To know the gradients used in laying drains and sewers	0.86	Remedial Classes.
CO6	Understanding the concept of Rain water harvesting and to know its calculations	0.46	Revision Near the end of the Semester.
Average Percentage CO Attainment		43.63%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	0.84	To redesign the structure of syllabus and to arrange certificate courses	
PO2	0.90	Remedial Classes, Increase in number of assignments	
PO3	0.96	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PO4	-	To redesign the structure of syllabus and to arrange certificate courses	
PO5	-	To redesign the structure of syllabus and to arrange certificate courses	
PO6	-	To redesign the structure of syllabus and to arrange certificate courses	
PO7	-	To redesign the structure of syllabus and to arrange certificate courses	
PO8	-	To redesign the structure of syllabus and to arrange certificate courses	
PO9	-	To redesign the structure of syllabus and to arrange certificate courses	
PSO1	0.84	To redesign the structure of syllabus and to arrange Certificate courses.	
PSO2	0.94	To redesign the structure of syllabus and to arrange Certificate courses.	
PSO3	0.9	To redesign the structure of syllabus and to arrange Certificate courses.	
Average % PO & PSO Attainment		30% & 29.77%	





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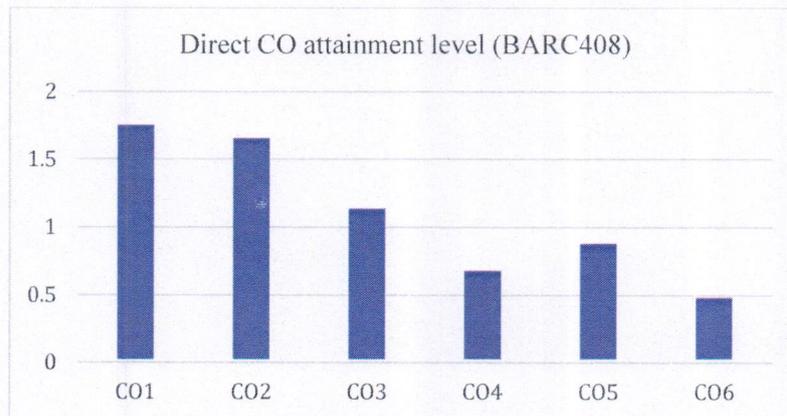
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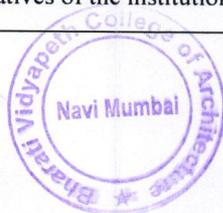
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Date :

Third Year Report - PO & PSO Attainment & Corrective Measures (2022-2023)

PO	PO Statement	Attainment Value	PO Corrective Measures
PO1	Inquiry based mediated experiential learning through rigorous understanding about academic knowledge domains such as Arts, Technology, Science and Environment / Sustainability.	1.512	Brain storming sessions
PO2	The reflective learning orients the students towards questioning the knowledge obtained and develop skills to chisel their problem-solving capacity.	1.321	Pre-design study conduction
PO3	Nurturing students' ability to translate concepts through creativity and technological aspects into tangible and intangible forms.	1.389	Model making
PO4	Imparting education through advanced tools which sensitize the students to strengthen their visualisation skills and imagine the outcome before reality.	1.427	BIM & Rhino Introduction
PO5	The education and knowledge imparted in the institution instils professional competencies and ethical values in students to provide them the appropriate skills and confidence to engage them in positions of social responsibilities as well as creating a sustainable society with inclusive approach of design respecting the Indian ethos and cultural values.	1.522	Talk by local bodies and high rank officials
PO6	Students are trained to engage in social outreach initiatives to implement best practices in environment conservation and sustainability through employing knowledge and skills.	1.436	IGBC activities and certificates
PO7	The initiative of learning by exploring and case-based learning equips the students to work collaboratively to achieve personal and professional goals	1.841	Book publication by group work
PO8	The role of an architect today is to communicate effectively his/ her ideas to benefit the society at large and the institution aims at imparting this capacity.	1.317	Architecture and social impact study
PO9	The concept of integration of diverse perspectives connecting local to global realities through the various social outreach initiatives of the institution.	1.512	Architects work study and interview





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PSO1	Analysing, evaluating, and synthesizing ideas and information gathered through design thinking and application into conceptualisation of design modules by consideration of alternative perspectives.	1.401	Studio documentation of process
PSO2	The knowledge and ability to apply a design decision-making through different aspects from concerned stake holders and appropriate technology.	1.324	Resource consumption study
PSO3	Establish application of knowledge through applied research by raising clear and precise questions and considering diverse points of view, to reach well-reasoned conclusions and evaluate options against relevant design criteria, building standards, and program requirements.	1.215	External internal jury




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SEMESTER 5




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Date :

Program		: Third Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Jury (200 Marks)											
Course		: Architectural Design Studio 5											
Course Code		: BARC501											
Semester/Faculty		: 5/Ar.Ankita & Ar.Sangam											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	2.5	2	-	2.5	-	2.5		-	3	2.5	2.5	2.562
CO2	2	2	-	-	2	-	3	2	-	2.5	2.5	2.5	2.312
CO3	2.5	2.5	2	-	-	2.5	-	-	-	2.5	2	2	2.285
CO4	-	-	-	2.5	-	2.5	-	-	-	3	2.5	2.5	2.600
CO5	2	2	2	-	-	-	-	-	-	2.5	2.5	2	2.166
CO6	-	-	2	2	-	-	2		2	2	2	2.5	2.071
CO7	-	-	2.5	-	2.5	-	-	2	-	2	2	2	2.166
CO8	-	-	2	2		2	-		-	2	2	2	2.000
Avg. PO	2.375	2.250	2.083	2.167	2.333	2.333	2.5	2	2	2.438	2.250	2.250	2.270
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students should gain knowledge and skills of optimizing spatial design by conducting detailed site study and documentation through drawings, sketches, photographs, etc.		1.775		Extra Remedial classes								
CO2	Students will explore techniques to efficiently utilize available space, considering factors like zoning, circulation patterns, human flow, and functional requirements.		1.746		Extra Remedial classes								
CO3	Students will consider utilities, transportation access, parking, and other essential amenities to		1.776		Extra Remedial classes								





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	ensure the functionality, universality and sustainability of the project.		
CO4	Students should learn to analyse case studies through observation, documentation and inferences to understand how architectural design influences building use and user experience.	1.812	Increase in the number of market surveys.
CO5	Students should be able to understand the influence of climatic factors on architectural design and implement appropriate passive strategies for proper lighting, ventilation, rain protection, heating, cooling, etc.	1.729	Increase in number of interviews.
CO6	Students should learn how to incorporate necessary infrastructure and services into their architectural designs effectively.	1.732	Increase in the number of market surveys.
CO7	Students should be able to comprehend and familiarize with different architectural forms and their corresponding functions for various types of buildings in urban environments.	1.765	Extra Remedial classes
CO8	Exploration of aesthetic aspects of design, including spatial attributes like scale, proportions, volumes, textures, and the interplay of light and shadows, as well as formal characteristics	1.760	Extra Remedial classes
Average Percentage CO Attainment		77.61%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.395	Increase in literature study	
PO2	1.322	Increase in drafting remedial classes	
PO3	1.223	Remedial classes	
PO4	1.273	Remedial classes	
PO5	1.370	Increase in Social interviews	
PO6	1.370	Increase in live case study	
PO7	1.468	To redesign the structure of syllabus and to arrange certificate courses	
PO8	1.175	Increase in drafting remedial classes	
PO9	1.175	Increase in drafting & one to one interaction	
PSO1	1.431	Remedial class	
PSO2	1.321	Case study improvement	
PSO3	1.321	Site visit	
Average % PO & PSO Attainment		80.11% & 77.08%	





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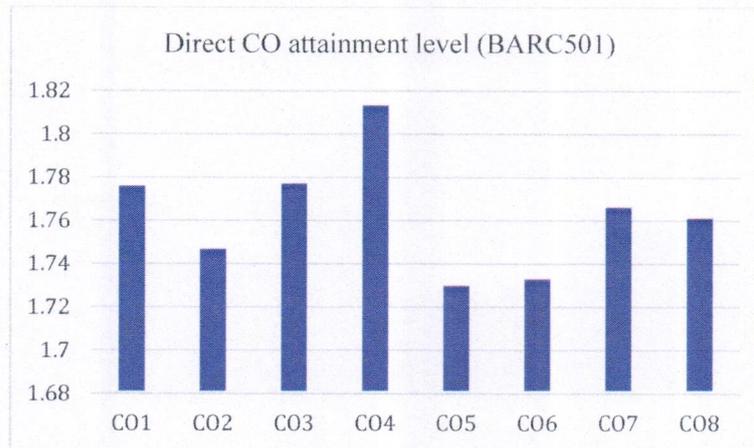
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Date :



Program		: Third Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional (100 Marks)											
Course		: Allied Design Studio 5											
Course Code		: BARC502											
Semester/Faculty		: 5/Ar.Madhura & Ar.Anandi											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	2	-	2	3	3	3	2.5	2.5	2.625
CO2	3	3	2.5	-	-	3	-	-	3	-	3	3	2.928
CO3	3	2	2	-	3	3	-	2	2	3	-	3	2.555
CO4	3	2	2	-	3	3	-	2	2	2	-	2	2.333
CO5	3	-	2	-	3	2	-	3	3	3	-	2	2.625
CO6	3	-	2	-	3	2	-	3	3	3	-	2	2.625
Avg. PO	3	2.333	2.1	-	2.8	2.6	2	2.6	2.666	2.8	2.75	2.416	2.615
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement						Final CO Attainment			Corrective Measures			



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CO1	The understanding of the terms with their multiple aspects: Landscape, Landscape Architecture and Landscape Design, Learning about the basic Elements of Landscape design will be achieved.	1.8769	Increasing interaction with students
CO2	Understanding of Fundamentals of Landscape Architecture: Land- Water- Vegetation will be enhanced	1.7962	Interactive sessions with field experts
CO3	The knowledge and skills to deal with Landscape forms, Concept of Contours, Relief maps, Slope analysis will be gained	1.7784	Exposure to existing landscape projects
CO4	They will be acquainted with Vegetation palette and typologies	1.7659	Interactive sessions with field experts
CO5	Understanding of Landscape values associated with Water as a fundamental element of Landscape Architecture will be developed.	1.8378	Interactive sessions with field experts
CO6	Understanding of Concepts of Natural and Designed Landscape, Basic understanding of History of Landscape Architecture and Ancient Garden styles will be done through literature study.	1.8579	Interactive sessions with field experts
Average Percentage CO Attainment			
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.818	To make students interact with professionals	
PO2	1.414	To expose students with practical methods used	
PO3	1.273	To arrange site visits	
PO4	-	To rearrange the syllabus	
PO5	1.697	Expose students to existing unique environmental phenomena	
PO6	1.576	Sensitise students towards ecology through field visits	
PO7	1.212	Promote the interaction amongst the students to build team spirit	
PO8	1.576	Encourage the improvements in communication skills of students	
PO9	1.616	To inspire students to refer relevant literature.	
PSO1	1.697	Site visits, interaction with professionals	
PSO2	1.667	Increase involvement of students in first-hand experience-oriented workshops	
PSO3	1.465	Enhance analytical skills	
Average % PO & PSO Attainment		57.80% 7 & 53.44%	





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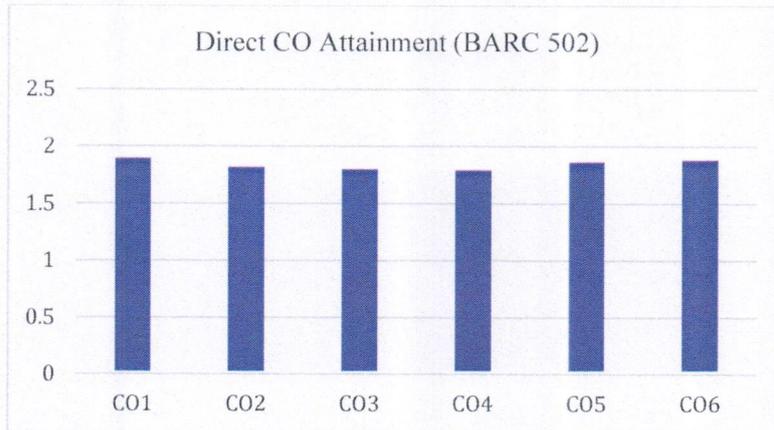
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Date :



Program		: Third Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory Paper (100 Marks)											
Course		: Architectural Building Construction 5											
Course Code		: BARC503											
Semester/Faculty		: 5/Ar.Justin & Ar.Ruta											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO2	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO3	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO4	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO5	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO6	3	-	3	3	-	-	-	-	3	-	3	3	3.000
Avg. PO	3	-	3	3	-	-	-	-	3	-	3	3	3.000
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													



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CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Introduce students to building lightweight skin system and in-fill panel materials.	2.206	Additional topic input need to be added
CO2	Students should understand the composite panel cladding system.	1.528	Remedial class need to be arranged
CO3	Students should understand the shallow foundation concepts and its types.	1.64	Site visit and industry visit need to be planned
CO4	Students should know about different situation w.r.t soil condition and foundation selection.	1.642	Expert person lectures need to be planned
CO5	Understanding the concept of Raft Foundation and its types.	1.51	Remedial class need to be arranged
CO6	Students should know the concepts of Buoyant Foundation and its components.	1.638	Site visit and industry visit need to be planned
Average Percentage CO Attainment		56.46%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.79	Improvement in continuous assessment	
PO2	-	-	
PO3	1.79	Need remedial studio for improvement	
PO4	1.79	Industrial visits need to be planned	
PO5	-	-	
PO6	-	-	
PO7	-	-	
PO8	-	-	
PO9	1.79	Need to Improve the ability and approach towards learning by expert sessions	
PSO1	-	-	
PSO2	1.07	Improvement in continuous assessment	
PSO3	1.07	Improvement in continuous assessment	
Average % PO & PSO Attainment		59.66% & 35.66%	



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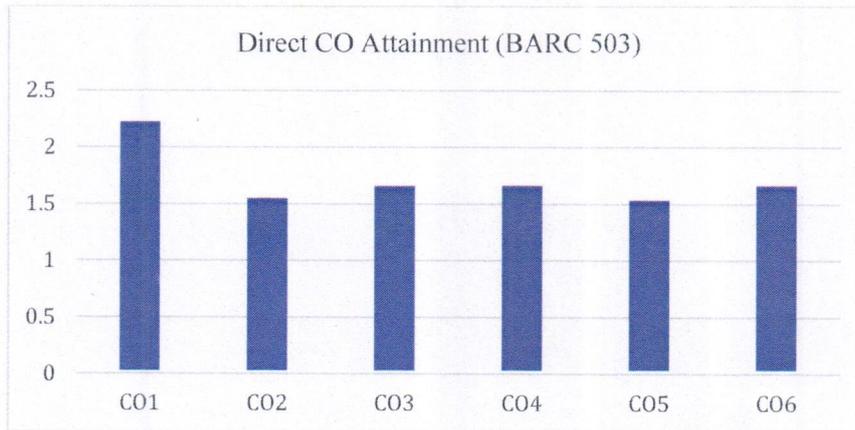
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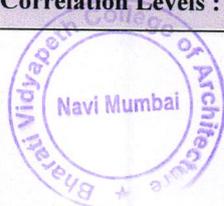
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Program		: Third Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory Paper (100 marks)											
Course		: Humanities 5											
Course Code		: BARC505											
Semester/Faculty		: 5/Ar.Prachi & Ar.Juili											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2	-	-	1.5	2.5	-	-	-	-	2	-	-	2.000
CO2	2	-	-	2.5	2	-	-	-	-	2	-	-	2.125
CO3	2.5	-	-	2.5	-	-	-	-	-	2.5	-	-	2.500
CO4	2.5	-	-	-	2.5	-	-	-	-	2	-	-	2.333
CO5	2.5	-	-	-	-	-	-	-	-	2	-	-	2.250
CO6	2.5	-	-	-	-	-	-	-	-	2.5	-	-	2.500
Avg. PO	2.33	-	-	2.16	2.33	-	-	-	-	2.16	-	-	2.284
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													





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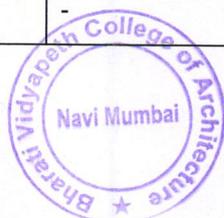
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CO Attainment (Direct & Indirect method)			
CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Students should be able to Analyse the linkages between art and architecture and the social, cultural, political and economic context of the period. For example. Understanding the Timeline under Art and architecture.	2.45	Remedial classes for Revision.
CO2	Students should Articulate the theme of Modern and Post-modern movements in art and architecture during the wars and deconstruct the architectural evolution developments in technology and structural systems.	1.28	Giving more references of books, articles and authorized websites
CO3	Students should be able to Review the critical, philosophical and regionalism influences on architecture. Students should be able associate the Art and Architecture in the Indian Context with respect to the influence of Modernism and famous Indian Modernists.	2.46	Remedial classes for Revision.
CO4	Students should be able to Articulate the various architecture setups and distinctive features of various periods. For e.g. From 1870 to 2000, Period movements.	1.28	Giving more references of books, articles and authorized websites
CO5	Students should be able to Understand the Influence of Vistara and the validation of Vernacular Architecture.	2.18	Remedial classes for Revision.
CO6	Students should be able to Associate the influence of Le Corbusier, Louis Kahn and Indian Modernists in the context of Indian Architecture.	2.18	Remedial classes for Revision.
Average Percentage CO Attainment		86.32%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.53	Demonstration of the study through Documentaries.	
PO2	-	-	
PO3	-	-	
PO4	1.42	Remedial classes for Revision.	
PO5	1.53	Remedial classes for Revision.	
PO6	-	-	



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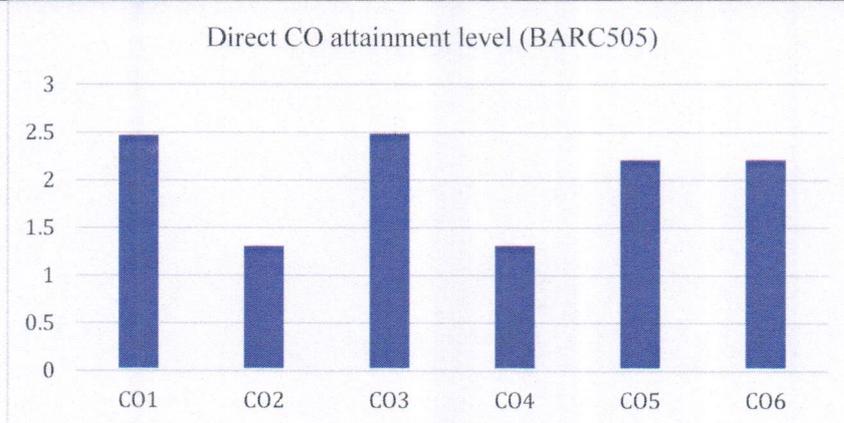
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PO7	-	-
PO8	-	-
PO9	-	-
PSO1	1.300	Remedial Classes for Revision
PSO2	-	
PSO3	-	
Average % PO & PSO Attainment		49.77% & 43.33%




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SEMESTER 6




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

Date :

Program		: Third Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Jury (200 marks)											
Course		: Architectural Design Studio 6											
Course Code		: BARC601											
Semester/Faculty		: 6/Ar.Ankita & Ar.Sangam											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2.5	-	2	-	-	-	-	2	-	2	2.5	2	2.166
CO2	-	2.5	3	-	-	-	-	-	-	2.5	2.5	2	2.500
CO3	2	2.5	2.5	2.5	-	-	-	-	-	2.5	2	3	2.428
CO4	2	2	2	-	-	-	-	-	2	2	2.5	2	2.071
CO5	2.5	-	2	-	-	-	-	-	2.5	2.5	2	2	2.250
CO6	2.5	-	2.5	-	-	-	-	-	2	3	2	2.5	2.416
CO7	-	-	2	-	-	-	-	-	-	2	3	2	2.250
CO8	-	-	2.5	2.5	-	2.5	-	-	-	3	2.5	2	2.500
Avg-PO	2.3	2.33	2.31	2.5	-	2.5	-	2	2.1	2.4	2.37	2.18	2.322
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students should have the expertise to enhance the character and identity of urban institutions through thoughtful design choices		1.71		Extra Remedial classes								
CO2	Students should create functional, contextually responsive, and aesthetically pleasing designs.		1.41		Extra Remedial classes								
CO3	Students should possess the skills to translate conceptual designs into detailed and technically sound architectural plans.		1.62		Extra Remedial classes								
CO4	Students should be capable of developing designs that seamlessly integrate infrastructure and building systems and services.		1.65		Increase in number of market survey.								





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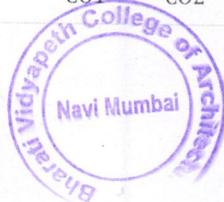
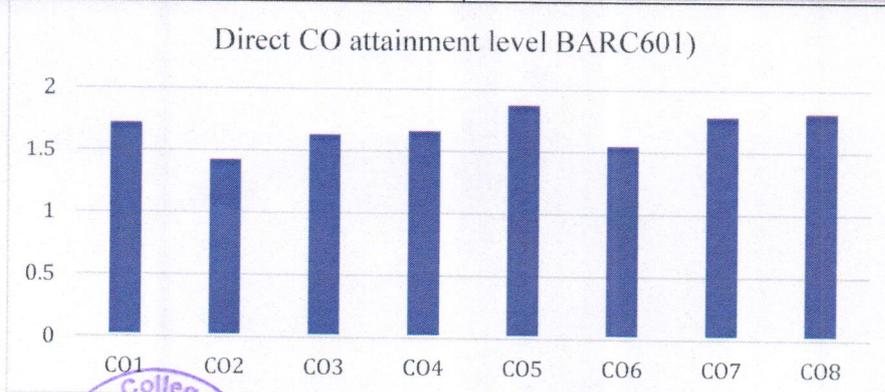
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CO5	Students should understand the importance of sustainable and efficient solutions through implementation of passive design strategies.	1.86	Increase in number guest lectures
CO6	Students will implement efficient solutions through implementation of passive design strategies.	1.53	Increase in number of market survey.
CO7	Students design should reflect the values, ethos, and vision of the institution, contributing to its overall identity and architectural design.	1.77	Extra guest lectures on expert talks
CO8	Students should develop plans through site specific aspects of physical, climatic, visual and cultural contexts.	1.80	Extra Remedial classes
Average Percentage CO Attainment		71.86%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.27	Increase in literature study	
PO2	1.29	Increase in drafting remedial classes	
PO3	1.28	Remedial classes	
PO4	1.38	Remedial classes	
PO5	0.00	Increase in Social interviews	
PO6	1.38	Increase in live case study	
PO7	0.00	To redesign the structure of syllabus and to arrange certificate courses	
PO8	1.11	Increase in drafting remedial classes	
PO9	1.16	Increase in drafting & one to one interaction	
PSO1	1.328	Remedial class	
PSO2	1.311	Case study improvement	
PSO3	1.200	Site visit	
Average % PO & PSO Attainment		63.35% & 42.56%	





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Program		: Third Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory paper (100 Marks)											
Course		: Architectural Building Construction 6											
Course Code		: BARC603											
Semester/Faculty		: 6/Ar.justin & Ar.Ruta											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO2	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO3	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO4	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO5	3	-	3	3	-	-	-	-	3	-	3	3	3.000
CO6	3	-	3	3	-	-	-	-	3	-	3	3	3.000
Avg. PO	3	-	3	3	-	-	-	-	3	-	3	3	3.000
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Introduce students to different floor slab construction for large bay sizes.		1.631		Remedial classes are recommended								
CO2	Student should know the application of Flat slab and its different types as per conditions.		1.649		Remedial classes are recommended								
CO3	Students should understand the configuration of Ribbed floor and its application.		1.631		Remedial classes are recommended								
CO4	Application of Prefab building elements and its materials.		1.631		Remedial classes are recommended								
CO5	Understanding the concept of Precast components and its infill materials.		1.624		Site visits need to be proposed								
CO6	Students should know the connection of Precast components with building Elements.		1.686		Revision lectures need to be added								
Average Percentage CO Attainment			54.73%										
PO-PSO Attainment													





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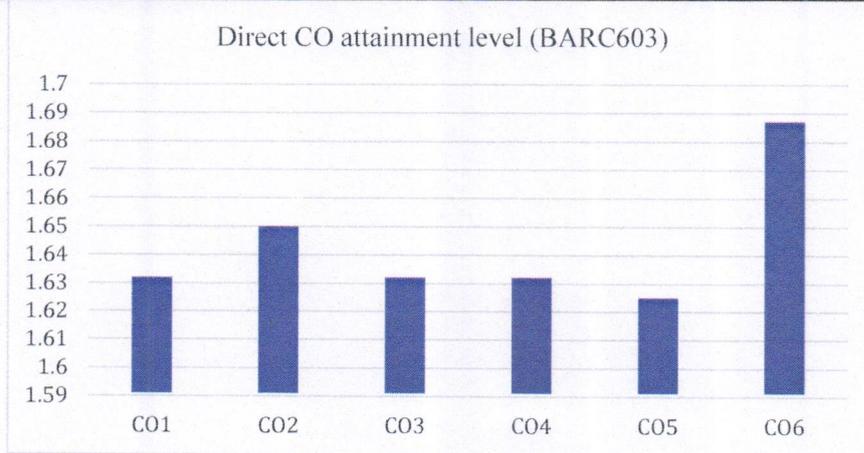
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PO	PO Attainment	Corrective Measures
PO1	1.633	Need continuous assessment and intermediate test
PO2	-	-
PO3	1.633	Remedial classes and frequent site visit
PO4	1.633	Industry interaction need to be improved
PO5	-	-
PO6	-	-
PO7	-	-
PO8	-	-
PO9	1.633	Need sensitization of student towards continuous upgradation
PSO1	-	
PSO2	0.89	Improvement in continuous assessment
PSO3	0.89	Improvement in continuous assessment
Average % PO & PSO Attainment		54.53% & 29.66%



Program	: Third Year B.Arch.
Year	: 2022-2023
Examination Scheme	: Internal/Sessional & Theory paper (100 Marks)
Course	: Theory & Design of Structures 6
Course Code	: BARC604
Semester/Faculty	: 6/Er.Dattatrya





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CO-PO Mapping														
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO	
CO1	2	2	-	-	-	-	-	-	-	2	2	2	2.000	
CO2	2	1.5	-	-	-	-	-	-	-	2.5	2.5	2.5	2.200	
CO3	1.5	1.5	-	-	-	-	-	-	-	1.5	2	2	1.700	
CO4	2.5	2.5	-	-	-	2.0	-	-	-	2	1.5	2	2.083	
CO5	2	2	2	-	-	-	-	-	2.5	2.5	2	2.5	2.214	
CO6	1.5	2.5	2.5	-	-	-	-	-	2	2	2	2	2.071	
Avg. PO	1.9	2.0	2.3	-	-	2.0	-	-	2.25	2.1	2	2.2	2.044	
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation														
CO Attainment (Direct & Indirect method)														
CO	CO Statement								Final CO Attainment	Corrective Measures				
CO1	Students will be able to Understand the behaviour and properties of RCC material								1.50	Extra classes, One to one interaction.				
CO2	Students will be able to Understand the design philosophy of WSM and LSM method								1.49	Increase in number of assignments				
CO3	Students will be able to understand load distribution in moment resisting frame and to understand role and behaviour of each member of frame under different loading condition								1.49	Increase in number of assignments				
CO4	Students will be able to understand serviceability checks like shear, deflection etc. also they will be able to study development length calculation								1.49	Increase in number of assignments				
CO5	Students will be able to analyse and design of structural frame members like slab, beam for gravity loading conditions								1.52	Industrial visits to bridge a gap between theoretical and practical knowledge				
CO6	Students will be able to analyse and design of structural frame members like, column and footing for gravity loading conditions								1.50	Crash course at the end semester before examination				
Average Percentage CO Attainment								73.30%						
PO-PSO Attainment														
PO	PO Attainment	Corrective Measures												
PO1	0.96	Site Visits to Bridge a gap between Theoretical and Practical Knowledge												



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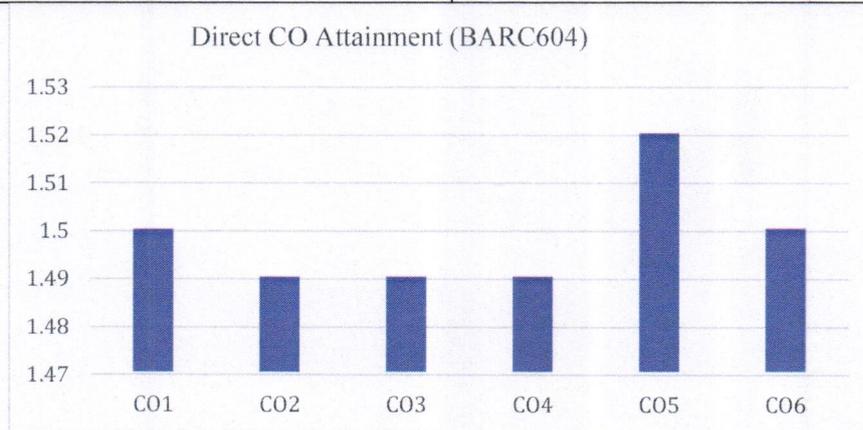
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PO2	1.00	Remedial classes
PO3	1.15	Remedial classes
PO4	0.00	To redesign the structure of syllabus and to arrange certificate courses
PO5	0.00	To redesign the structure of syllabus and to arrange certificate courses
PO6	1.00	Remedial classes
PO7	0.00	To redesign the structure of syllabus and to arrange certificate courses
PO8	0.00	To redesign the structure of syllabus and to arrange certificate courses
PO9	1.12	Site Visits to Bridge a gap between Theoretical and Practical Knowledge
PSO1	0.52	Site Visits, Bridge a gap between Theoretical and Practical Knowledge
PSO2	0.50	Remedial classes
PSO3	0.55	Field exposure to students
Average % PO & PSO Attainment		34.86% & 17.44%



Program	: Third Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional & Jury (200 marks)												
Course	: Architectural Representation & Detailing 6												
Course Code	: BARC607												
Semester/Faculty	: 6/Ar.Vinita & Ar.Tushar												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO





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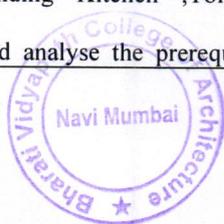
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CO1	2.75	2.75	2.75	2	1	1	1	1	2.75	2.8	2.9	2.9	2.133
CO2	2.25	2.75	2.75	2	1	1	1	1	2.75	2.8	2.9	2.9	2.09
CO3	2.25	2.75		2.75	-	-	1.75	1.5	2.75	2.8	2.9	2.9	1.865
CO4	2.75	2.75	2.25	2.5	1	-	1.75	1	2.75	2.8	2.9	2.9	2.112
CO5	2.5	2.25	2	2.5	2	2.5	2	1.75	2.75	2.6	2.5	2.75	2.341
CO6	2.75	2.25	2.25	2.25	-	-	1.75	1.75	2.75	2.75	2.5	2.75	1.979
CO7	2.25	2.25	2.25	2	1.5	-	1	1	2.75	2.75	2.75	2.75	1.937
CO8	2.25	2.75	2.75	2.9	2	2	2	2	2.75	2.9	2.9	2.9	2.508
Avg. PO	2.469	2.563	2.429	2.363	1.417	1.625	1.531	1.375	2.750	2.775	2.781	2.844	2.120

Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation

CO Attainment (Direct & Indirect method)

CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Understanding RCC framed structure & different stages & process in construction of G+2 Floor RCC framed structure.	1.7822	Remedial Class and Site Visits
CO2	Understanding the working details for designed floor plans & making the appropriate changes.	1.7822	Giving more references and one to one interaction
CO3	Execute the learnings for Creating the Column layout, Making the Schedule for columns & representing it plan, Section & details.	1.7795	Site Visits for understanding the execution process
CO4	Realize the significance, importance & necessity of Working on the Setting out plan & Centre line plan for the execution of the project. Understanding the purpose of plinth beam, wall & representing it plan, Section along with openings i.e. Doors & Window details.	1.7795	Detailed case study discussions
CO5	Study and analyse the requisites of services like water supply, UG tank & OHT, drainage pipes, plumbing, the design of respective systems, the challenges encountered, and the designing, Scheduling & representing it in working drawing.	1.7806	Giving more references of books, expert lectures and one to one interaction
CO6	Creating the Floor beam layout & slab layout with the sunk details and water proofing process for Terrace & Toilets	1.7855	Site Visits for understanding the execution process
CO7	Understanding Kitchen, Toilet and staircase Details Study and analyse the prerequisites of services,	1.7812	Giving more references of books, expert lectures and one to one interaction



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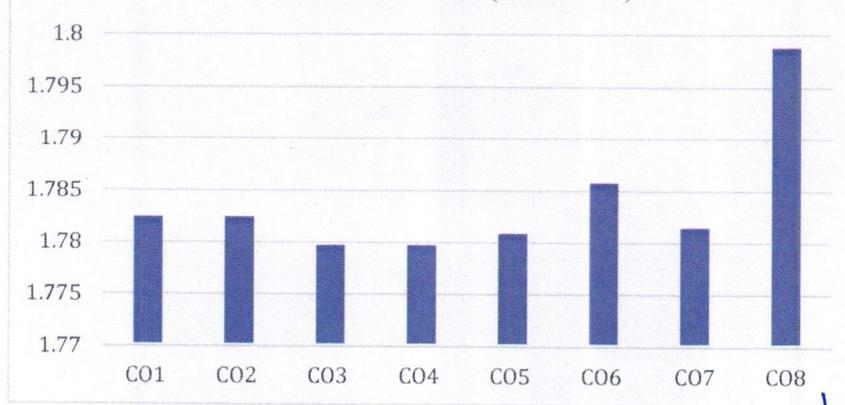
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	particularly water supply in high-rise structures, the sourcing of water, the design of respective water distribution systems, the challenges encountered, and the safety concerns associated thereto		
CO8	Student will grasp the knowledge & Understanding of working drawing along with Execution process & stages for RCC G+2 Framed structure.	1.7985	Remedial Class and Giving more references of books, expert lectures and one to one interaction
Average Percentage CO Attainment		73.64%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.4678	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PO2	1.5236	One to one interaction and expert lectures	
PO3	1.4439	Detail discussion on the assignments	
PO4	1.4046	More practice with latest software tools	
PO5	0.8423	Site Visits to Bridge a gap between Theoretical and Practical Knowledge, integrated with other subject like services	
PO6	0.9662	One to one interaction and expert lectures, site visits, integration of other subjects like EVS	
PO7	0.9104	Group discussion on various aspects of working drawings	
PO8	0.8175	Interaction with the expert	
PO9	1.6350	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PSO1	1.6499	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PSO2	1.6536	Site Visits and Interaction with experts	
PSO3	1.6908	Understanding the Architects role in detail	
Average % PO & PSO Attainment		47.87% & 55.49%	

Direct CO Attainment (BARC 607)



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Fourth Year Report- PO Attainment and Corrective Measures (2022-2023)

PO	PO Statement	Attainment Value	PO Corrective Measures
PO1	Inquiry based mediated experiential learning through rigorous understanding about academic knowledge domains such as Arts, Technology, Science and Environment / Sustainability.	1.666	Interview can be conducted by students and documented
PO2	The reflective learning orients the students towards questioning the knowledge obtained and develop skills to chisel their problem-solving capacity.	1.310	Market survey and analysis
PO3	Nurturing students' ability to translate concepts through creativity and technological aspects into tangible and intangible forms.	1.437	Use of tools, graphics, computers to communicate
PO4	Imparting education through advanced tools which sensitize the students to strengthen their visualisation skills and imagine the outcome before reality.	1.452	Learning by modelling
PO5	The education and knowledge imparted in the institution instils professional competencies and ethical values in students to provide them the appropriate skills and confidence to engage them in positions of social responsibilities as well as creating a sustainable society with inclusive approach of design respecting the Indian ethos and cultural values.	1.548	Visits to culturally enriched places and documentation
PO6	Students are trained to engage in social outreach initiatives to implement best practices in environment conservation and sustainability through employing knowledge and skills.	1.472	Interface with local bodies
PO7	The initiative of learning by exploring and case-based learning equips the students to work collaboratively to achieve personal and professional goals	1.640	Group work and sequencing
PO8	The role of an architect today is to communicate effectively his/ her ideas to benefit the society at large and the institution aims at imparting this capacity.	1.617	Alumni connect
PO9	The concept of integration of diverse perspectives connecting local to global realities through the various social outreach initiatives of the institution.	1.483	MOU with other institutes for knowledge partnership
PSO1	Analysing, evaluating, and synthesizing ideas and information gathered through design thinking and	1.350	Computer tools and its application





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	application into conceptualisation of design modules by consideration of alternative perspectives.		
PSO2	The knowledge and ability to apply a design decision-making through different aspects from concerned stake holders and appropriate technology.	1.470	Project management
PSO3	Establish application of knowledge through applied research by raising clear and precise questions and considering diverse points of view, to reach well-reasoned conclusions and evaluate options against relevant design criteria, building standards, and program requirements.	1.380	Study of building codes and its standards.




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SEMESTER 7




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Date :

Program		: Fourth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Jury (200 Marks)											
Course		: Architectural Design Studio 7											
Course Code		: BARC701											
Semester/Faculty		: 7/Ar.Amit & Ar.Nikhil											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	2	3	3	-	3	3	-	-	2.833
CO2	3	2	-	-	3	2	3	-	-	3	2	-	2.571
CO3	3	2	3	-	3	-	3	-	2	2	2	2	2.444
CO4	2	3	-	-	2	3	-	2	2	2	-	-	2.285
CO5	2	3	-	-	-	-	2	2	3	-	-	-	2.400
CO6	2	-	-	-	2	-	-	-	-	-	2	-	2.000
CO7	3	2	2	3	-	-	3	-	2	2	2	2	2.333
CO8	-	-	3	-	-	2	-	-	-	-	2	2	2.250
Avg-PO	2.571	2.400	2.667	3.000	2.400	2.500	2.800	2.000	2.400	2.400	2.000	2.000	2.389
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students should be introduced to different Housing typologies and its relation to the project proposed specific to urban areas.		1.838		Take more comparative case studies.								
CO2	To understand various evolution of a housing typology, clustering possibilities, and resultant built form so as to create a housing design using the relevant interpretation.		1.838		Extra Remedial classes.								
CO3	To evaluate socio-cultural aspects like lifestyle, cultural beliefs and practices, customs of community and their effect on housing design.		1.838		Extra Remedial classes.								
CO4	To understand the economic concerns catering to the affordability of society and solutions based on architectural responses.		1.790		Conduct primary surveys and data collections.								



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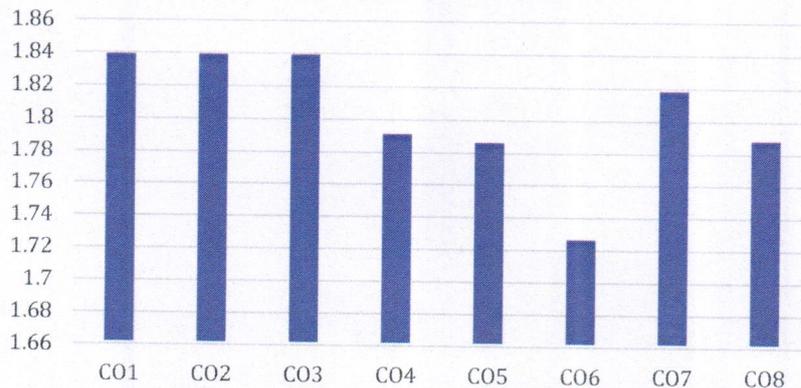
Date :

CO5	Students should understand qualitative and quantitative aspect of mass housing.	1.785	Extra Remedial classes.
CO6	To understand and apply legislative aspects with reference to the housing context and setting of the project site	1.725	Organise extra guest lectures.
CO7	To analyse case specific study through the process of observation, survey and documentation and evaluate them leading to design approach.	1.817	Assign group wise compilation of data or documentation.
CO8	To Design the solution based on to the project brief and the needs of the user stated as per the given data.	1.787	Extra Remedial classes.
Average Percentage CO Attainment		75.42%	

PO-PSO Attainment

PO	PO Attainment	Corrective Measures
PO1	1.545	Extra Remedial classes.
PO2	1.442	Site visit and increased local interviews.
PO3	1.602	Design thinking workshops.
PO4	1.802	Software Skill development workshops.
PO5	1.442	Increased local interviews and review similar case studies.
PO6	1.502	Organise extra guest lectures.
PO7	1.682	Re-structure schedule and involve more group discussions.
PO8	1.202	Extra Remedial classes.
PO9	1.442	Involve more group discussions.
PSO1	1.083	Extra Remedial classes.
PSO2	1.083	Study Tours and site visits
PSO3	1.083	Organise extra guest lectures and Expert talk sessions.
Average % PO & PSO Attainment		46.99% & 46.41%

Direct CO Attainment (BARC 701)



(Signature)
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(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

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

Date :

Program	: Fourth Year B.Arch.
Year	: 2022-2023
Examination Scheme	: Internal/Sessional & Jury (200 Marks)
Course	: Architectural Representation & Detailing 7
Course Code	: BARC707
Semester/Faculty	: 7/Ar.Ruta & Ar.Milind

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	2	-	-	-	2	-	2	3	2	2	2.285
CO2	3	2	2	-	3	-	-	2	-	2	2	3	2.375
CO3	3	2	-	-	-	-	-	-	2	2	2	2	2.166
CO4	3	-	2	2	-	-	-	3	-	2	2	2	2.285
CO5	3	2	-	-	-	-	2	-	-	2	2	2	2.166
CO6	3	-	-	-	2	-	-	-	-	2	3	2	2.400
CO7	3	2	2	-	-	-	-	-	2	2	2	2	2.142
CO8	-	2	-	2	-	2	-	-	-	2	2	2	2.000
Avg. PO	3	2	2	2	2.5	2	2	2.5	2	2.125	2.125	2.125	2.227

Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation

CO Attainment (Direct & Indirect method)

CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	To understand the need and importance of building bye laws and their applications	1.876	Extra remedial class
CO2	To understand the various laws for regulation of building operations and urban development.	1.863	Extra remedial class
CO3	To familiarize the students with various codes of practices /acts related to building construction	1.831	Extra remedial class
CO4	To understand designing of residential building according to regulation and document the Municipal drawings of the building	1.833	Expert talk/Seminar
CO5	To study implementation of regulations through municipal approval drawing.	1.844	Interaction with officials



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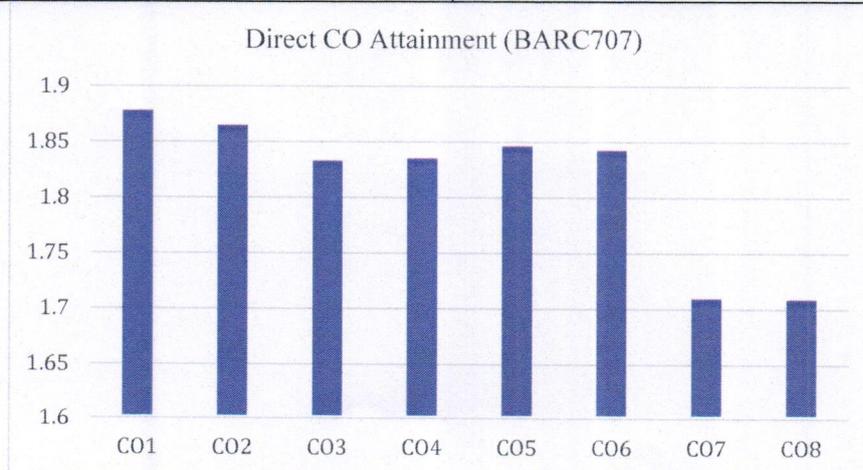
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CO6	To understand national building codes.(NBC)	1.840	Group assignment
CO7	To understand building bylaws and regulations of Mumbai & Navi Mumbai city and suburb.	1.707	Extra remedial class
CO8	To Explore detail specifications of different building materials.	1.706	Group assignment
Average Percentage CO Attainment		81.38%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.83	Extra remedial class	
PO2	1.22	site visit & increased interviews	
PO3	1.22	Review sample drawings	
PO4	1.22	Seminar on software	
PO5	1.52	Extra remedial class	
PO6	1.22	Expert talk/Seminar	
PO7	1.22	Group discussion	
PO8	1.52	Extra remedial class	
PO9	1.22	Group discussion	
PSO1	1.295	Expert talk/seminar	
PSO2	1.295	Expert talk/seminar	
PSO3	1.295	Expert talk/seminar	
Average % PO & PSO Attainment		58.04% & 43.16%	





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Date :

Program		: Fourth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory paper (100 Marks)											
Course		: Architectural Building Services 5											
Course Code		: BARC708											
Semester/Faculty		: 7/Ar.Priyanka & Ar.Tejaswini											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	1	-	-	-	3	-	-	3	3	3	2	2.571
CO2	3	2	-	-	-	3	3	-	3	3	3	2	2.750
CO3	3	-	-	2	-	3	2.5	-	3	2	3	1	2.437
CO4	3	-	-	2	-	3	2.5	-	3	2	3	3	2.687
CO5	3	-	-	2	-	3	2.5	-	3	2	3	3	2.687
CO6	2	-	-	3	-	1	3	-	3	3	3	3	2.625
Avg-PO	2.83	1.50	-	2.25	-	2.67	2.7	-	3.00	2.83	3.00	2.33	2.626
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students will understand the need of Thermal comfort conditions - temperature control, Humidity control, air filtration, and air changes.		1.52		Increase in number of assignments								
CO2	Students will understand the Ventilation system by studying the Passive Technique via the case studies.		1.44		Increase in number of assignments								
CO3	Students will understand the current market scenario with respect to Ducted and Non- Ducted Mechanical Ventilation in the Basements which will be conducted through Case studies.		1.24		Remedial Classes								
CO4	Students will need to study the Concept of Refrigeration cycle along with understanding the systems of air conditioning of Local systems for both Cooling and Heating systems.		1.49		Industrial visits to bridge a gap between theoretical and practical knowledge								





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CO5	Students will need to study the Concept of Refrigeration cycle along with understanding the systems of air conditioning of Cycle in Central system for both Cooling and Heating systems.	1.51	Industrial visits to bridge a gap between theoretical and practical knowledge
CO6	Students shall understand the fittings and fixtures, types of Duct work, other fixtures like fire dampers, return pipe and supply line required for placing the air conditioning systems for both Heating and Cooling.	1.42	Industrial visits to bridge a gap between theoretical and practical knowledge
Average Percentage CO Attainment		54.70%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.36	Extra classes, One to one interaction	
PO2	0.72	Remedial Classes	
PO3	-	--	
PO4	1.08	Industrial visits to bridge a gap between theoretical and practical knowledge	
PO5	-	-	
PO6	1.28	Technical Expert lecture	
PO7	1.29	One on One Interaction	
PO8	-	-	
PO9	1.44	Technical Expert lecture and case studies analysis	
PSO1	1.36	Site Visits, Bridge a gap between Theoretical and Practical Knowledge	
PSO2	1.36	One on One discussion and Technical expert sessions	
PSO3	1.12	Site Visits, Bridge a gap between Theoretical and Practical Knowledge	
Average % PO & PSO Attainment		42.17% & 42.66%	



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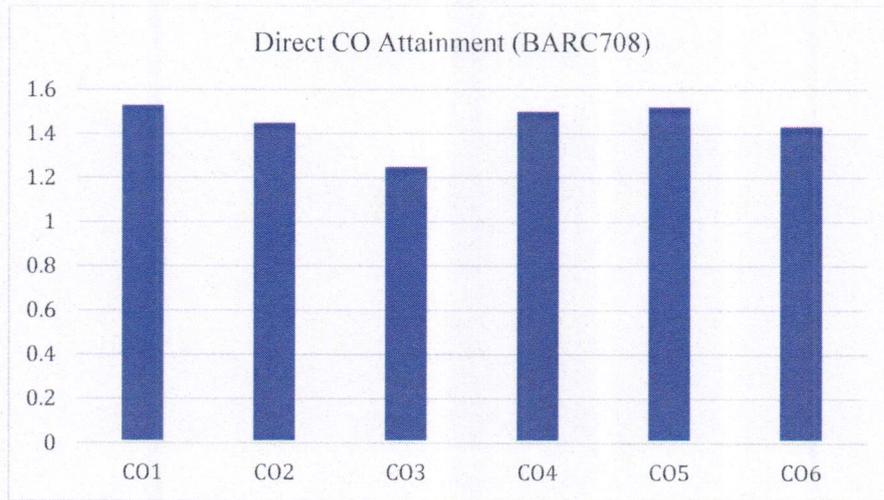
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Ref. No. : BV/COA/N.M./

Date :



Program		: Fourth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory paper (100 Marks)											
Course		: Professional Practises 1											
Course Code		: BARC710											
Semester/Faculty		: 7/Ar.Tejash & Ar.Neha											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	3	-	-	2	-	-	3	3	2.800
CO2	3	3	-	-	3	-	3	3	3	-	3	3	3.000
CO3	3	2	-	-	3	-	3	3	3	-	3	3	2.875
CO4	3	-	-	-	3	-	3	3	-	-	3	3	3.000
CO5	3	3	-	-	3	-	-	3	-	-	3	3	3.000
CO6	3	3	-	-	3	-	-	3	-	-	3	3	3.000
Avg. PO	3	2.75	-	-	3	-	3	2.83	3	-	3	3	2.945
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													



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CO Attainment (Direct & Indirect method)			
CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Familiarising students to the profession of architecture, Architect's Act 1972, its amendments, professional roles, duties and responsibilities of an Architect	0.88	Industry expert session to be held.
CO2	Understanding of the code of profession, codes pertaining to architectural competitions and copy rights of drawings	1.55	Revamping of assignment questions.
CO3	Reviewing different types of office setup and their administration and structure through examples	2.28	Industry expert session to be held.
CO4	Explaining the concept of tenders, types, documents, procedure for floating of tenders	1.42	Remedial Classes to be held.
CO5	Understanding the process of selection of tenders, bid capacity, rate analysis and work orders	1.98	Remedial Classes to be held
CO6	Understanding the types of contracts and its documents, vocabulary related to contracts such as earnest money, liquidate damage, termination of contract, payment certificates etc.	1.68	Revamping of assignment questions.
Average Percentage CO Attainment		55.40%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.630	Remedial Classes to be held.	
PO2	1.500	Industry expert session to be held.	
PO3	-	-	
PO4	-	-	
PO5	1.630	Remedial Classes to be held.	
PO6	-	-	
PO7	-	-	
PO8	1.540	Revamping of assignment questions.	
PO9	-	-	
PSO1	-	-	
PSO2	1.630	Remedial Classes to be held	
PSO3	1.630	Remedial Classes to be held	
Average % PO & PSO Attainment		52.50% & 54.33%	





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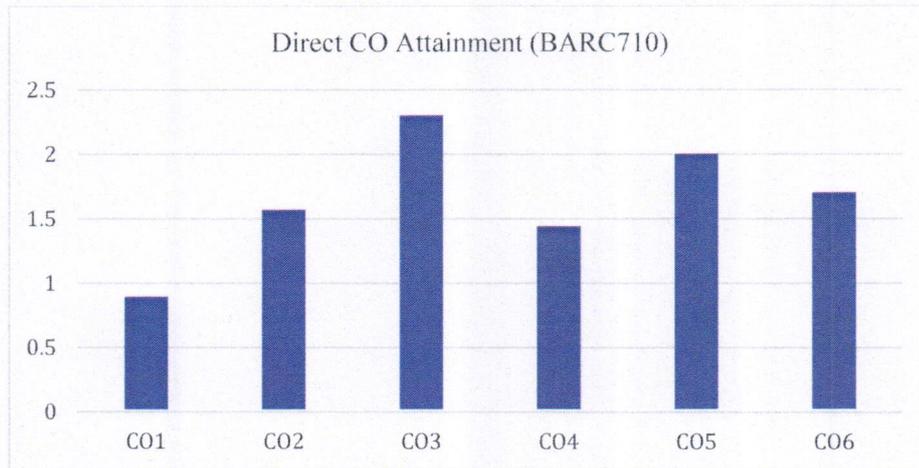
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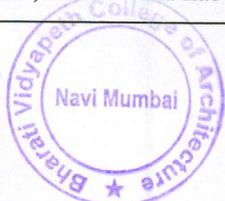
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Ref. No. : BV/COA/N.M./

Date :

Program		: Fourth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Jury (200 Marks)											
Course		: Professional Practises 1											
Course Code		: BARC811											
Semester/Faculty		: 8/Ar.Tejaswini HM											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	2	-	3	-	3	2	3	3	2	3	-	2.666
CO2	3	3	-	-	2	3	3	3	2	2	2	3	2.600
CO3	3	3	-	3	-	3	-	3	3	3	3	-	3.000
CO4	2	-	-	-	3	-	3	3	3	-	2	-	2.666
CO5	3	3	-	-	-	3	2	3	2	3	3	3	2.777
CO6	3	3	2	3	-	3	3	3	2	3	-	3	2.800
CO7	3	2	3	2	-	2	3	3	2	2	2	2	2.363
CO8	2	-	-	-	3	-	3	2	3	-	3	-	2.666
Avg-PO	2.75	2.66	2.5	2.75	2.66	2.66	2.71	2.875	2.5	2.5	2.57	2.75	2.692
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students will learn various work procedures of the Architectural education.		2.360		Efforts will be made to provide wide exposure of the field through interactive sessions with working profession.								
CO2	Students will understand how to design practically by visiting Site, observing Site surroundings.		2.360		Efforts will be made to provide wide exposure of the field through interactive sessions with working profession.								
CO3	Students will be exposed to various construction Technologies, new materials etc.		2.360		Efforts will be made to provide wide exposure of the field through interactive sessions with working profession.								
CO4	Students will learn the skills to deal with Clients, Consultants, Vendors and Labourers.		2.360		Efforts will be made to provide wide exposure of the field through interactive sessions with working profession.								





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CO5	Students will understand professional development skill.	2.360	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession.
CO6	Students will gain practical experience in the field of Architecture.	2.360	Placement drive will be arranged to connect students with Pan India architectural firms.
CO7	Students will learn to take responsibility to handle projects independently.	2.360	Placement drive will be arranged to connect students with Pan India architectural firms.
CO8	Students will learn and understand Environment of established office for their future professional practice.	2.360	Placement drive will be arranged to connect students with Pan India architectural firms.
Average Percentage CO Attainment		87.66%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	2.1633	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO2	2.0978	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO3	1.9667	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO4	2.1633	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO5	2.0978	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO6	2.2289	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO7	2.1352	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO8	2.2617	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PO9	1.9667	Efforts will be made to provide wide exposure of the field through interactive sessions with working profession	
PSO1	1.9667	As per the syllabus the students undergo training outside the institute	
PSO2	2.0229	As per the syllabus the students undergo training outside the institute	
PSO3	2.1633	As per the syllabus the students undergo training outside the institute	
Average % PO & PSO Attainment		70.67% & 68.36%	



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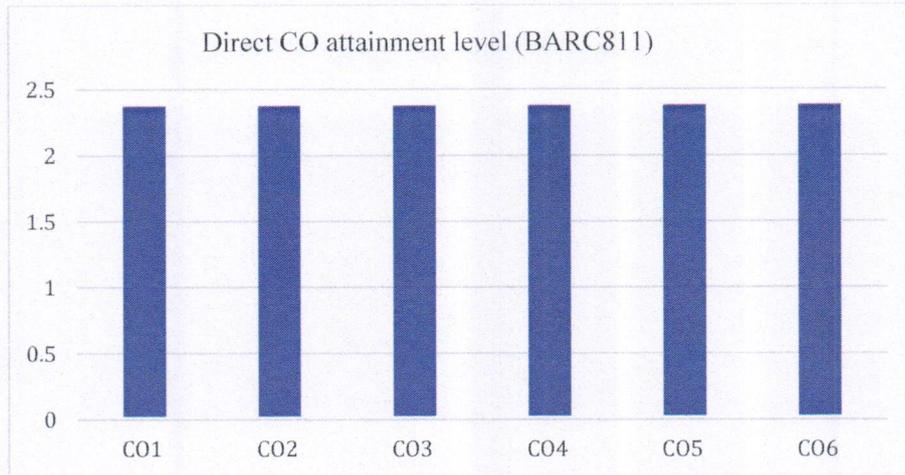
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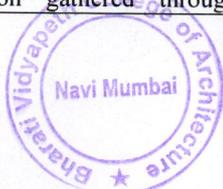
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Date :

Fifth Year Report– PO Attainment and Corrective Measures (2022-2023)

PO	PO Statement	Attainment Value	PO Corrective Measures
PO1	Inquiry based mediated experiential learning through rigorous understanding about academic knowledge domains such as Arts, Technology, Science and Environment / Sustainability.	1.657	Session with Artists, scientists and Environmentalists
PO2	The reflective learning orients the students towards questioning the knowledge obtained and develop skills to chisel their problem-solving capacity.	1.553	Knowledge can be imparted by interpretation with on-site issues in consideration
PO3	Nurturing students' ability to translate concepts through creativity and technological aspects into tangible and intangible forms.	1.682	Parametric, Animations and sketches using Revit etc.
PO4	Imparting education through advanced tools which sensitize the students to strengthen their visualisation skills and imagine the outcome before reality.	1.447	Use of advanced software's
PO5	The education and knowledge imparted in the institution instils professional competencies and ethical values in students to provide them the appropriate skills and confidence to engage them in positions of social responsibilities as well as creating a sustainable society with inclusive approach of design respecting the Indian ethos and cultural values.	1.468	Exploring Indian society's and its needs through electives
PO6	Students are trained to engage in social outreach initiatives to implement best practices in environment conservation and sustainability through employing knowledge and skills.	1.574	Participation in IGBC activities
PO7	The initiative of learning by exploring and case-based learning equips the students to work collaboratively to achieve personal and professional goals	1.481	Live case studies
PO8	The role of an architect today is to communicate effectively his/ her ideas to benefit the society at large and the institution aims at imparting this capacity.	1.475	Experimental participation in professional bodies like IIA
PO9	The concept of integration of diverse perspectives connecting local to global realities through the various social outreach initiatives of the institution.	1.661	Attending conferences/seminars.
PSO1	Analysing, evaluating, and synthesizing ideas and information gathered through design thinking and	1.398	Improved studio interface





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Date :

	application into conceptualisation of design modules by consideration of alternative perspectives.		
PSO2	The knowledge and ability to apply a design decision-making through different aspects from concerned stake holders and appropriate technology.	1.429	Introduction of BIM software and lectures with industry experts
PSO3	Establish application of knowledge through applied research by raising clear and precise questions and considering diverse points of view, to reach well-reasoned conclusions and evaluate options against relevant design criteria, building standards, and program requirements.	1.534	Elective 8 to be more rigorous and focused.




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(G D DID, PG DID, IIA, M.Sc.ID, M.Arch)

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(G.D.DID, P.G.DID, IIA, M.Sc.ID, M.Arch)

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

Date :

Program	: Fifth Year B.Arch.
Year	: 2022-2023
Examination Scheme	: Internal/Sessional & Jury (200 marks)
Course	: Architectural Design Studio 8
Course Code	: BARC901
Semester/Faculty	: 9/Ar.Kamakshi & Ar.Priyanka

CO-PO Mapping

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	2	-	2	3	-	3	2.5	2	2.500
CO2	-	2	3	-	-	-	-	3	-	3	2.5	2	2.583
CO3	-	3	-	3	-	-	-	3	-	3	2.5	2	2.750
CO4	-	-	3	3	-	-	-	-	-	3	2.5	2	2.700
CO5	3	-	-	2	-	3	-	3	-	3	2.5	2	2.642
CO6	3	-	-	-	3	1	-	-	-	3	2.5	2	2.416
CO7	-	-	-	3	-	2	-	3	-	3	2.5	2	2.583
CO8	-	-	-	-	-	3	-	-	3	3	2.5	2	2.700
Avg. PO	3	2.5	3	2.75	2.5	2.25	2	3	3	3	2.5	2	2.609

Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation

CO Attainment (Direct & Indirect method)

CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	The student will understand and develop the design project through predesign study i.e. design brief formulation with area program and site. The student will learn to formulate design thinking with respect to site context, surroundings and needs of design program for a large scale multi-activity project.	1.80	More learning from case studies.
CO2	The student will apply concepts learnt in Basic design to Create Detailed Compositions of masses in all dimensional relevance with respect to functional aspects	1.79	Group work to enhance studio sessions More frequent critical analysis.
CO3	The student will create stylization and expression of Architectural forms with creative thinking.	1.78	More learning from case studies.



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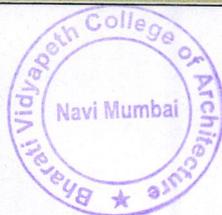
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	Create Space articulation for masses, solid void creation in building design with regard to aesthetics sensibility.		
CO4	The student will correlate and develop integration of unbuilt spaces to build mass after proper analysis and evaluation and role of hard and soft landscape.	1.78	More learning from case studies.
CO5	The student will innovate in Architectural detailing of spaces applying principles of building performance and sustainability.	1.80	More learning from case studies.
CO6	The student will work out provision of facilities in accordance with building standards and norms. Applicable in the particular zone and building type.	1.78	More learning from case studies.
CO7	The student will apply principles of structural design in the building to accommodate ease of construction applying building technology and services in relation to economy of materials and workability.	1.80	More learning from case studies.
CO8	The student will critically evaluate multifunctional aspects of building space and its integration in design and overall cultural and socio-economic value.	1.80	More learning from case studies.
Average Percentage CO Attainment		68.65%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.81	Calling experts. Research discussions related to topic.	
PO2	1.51	Calling experts. Research discussions related to topic.	
PO3	1.81	Calling experts. Research discussions related to topic.	
PO4	1.66	Calling experts. Research discussions related to topic.	
PO5	1.51	Calling experts. Research discussions related to topic.	
PO6	1.35	Calling experts. Research discussions related to topic.	
PO7	1.20	Calling experts. Research discussions related to topic.	
PO8	1.81	Calling experts. Research discussions related to topic.	
PO9	-	-	
PSO1	1.81	Take field studies. Learning from knowledge exchange with other disciplines.	
PSO2	1.51	Take field studies. Learning from knowledge exchange with other disciplines.	
PSO3	1.20	Take field studies. Learning from knowledge exchange with other disciplines.	
Average % PO & PSO Attainment		63.33% & 50.33%	





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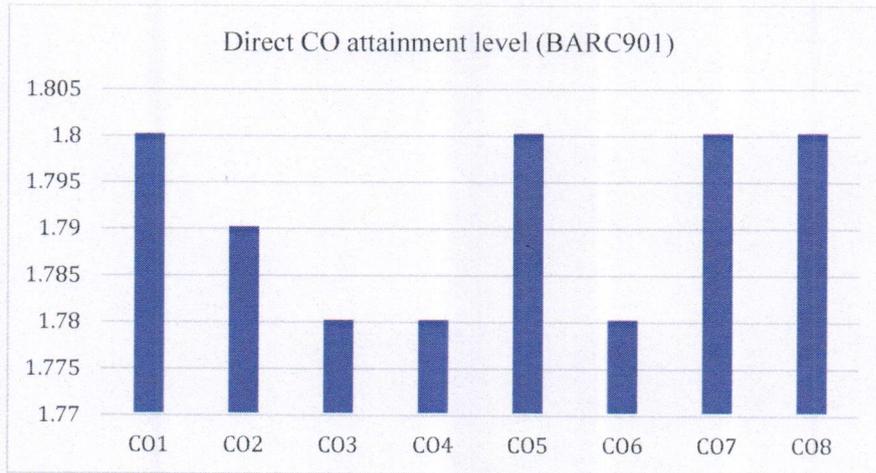
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Date :



Program		: Fifth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Theory paper (100 marks)											
Course		: Allied Design Studio 8											
Course Code		: BARC902											
Semester/Faculty		: 9/Ar.Pooja & Ar.Nikhil											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	-	-	-	2	-	1.5	2	1.5	3	2.166
CO2	3	-	2.5	-	-	-	-	-	-	2.5	1	2.5	2.300
CO3	3	-	-	-	-	-	-	-	-	2	2.5	2	2.375
CO4	2.5	2.5	-	-	-	-	-	-	-	2	2	1.5	2.100
CO5	2	-	-	-	-	-	-	-	-	3	2.5	2	2.375
CO6	2.5	-	-	-	2	-	2	-	-	3	2.5	2	2.333
CO7	2.5	-	-	-	-	-	-	-	2	1.5	2	2	2.000
CO8	2	-	-	-	-	-	-	-	2	2	2	2	2.000
Avg. PO	2.562	2.5	2.5	-	2	-	2	-	1.833	2.25	2	2.125	2.206



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Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation			
CO Attainment (Direct & Indirect method)			
CO	CO Statement	Final CO Attainment	Corrective Measures
CO1	Highlighting the importance of town planning and outlining the scope for the students.	1.968	More learning from case studies
CO2	Students will understand the concepts and theories of town planning. Students will summarize the concepts and theories related to town planning.	1.651	More learning from case studies
CO3	Students will apply the data collection and different analysis methods to the collected data.	1.795	More learning from case studies
CO4	Linking and analysing the impact of town planning theories, concepts and planning factors.	1.692	More learning from case studies
CO5	After assessment, students will get the reviews on assignments of town planning authorities.	1.66	More learning from case studies
CO6	The student will research about the planning authorities and will write a detailed report on functions of town planning authorities.	1.704	More learning from case studies
CO7	Students will develop the practical understanding of the subject and will do the case study to understand it in detail.	1.656	More learning from case studies
CO8	Students will understand the importance of authorities and acts and strategies related to the subject.	1.656	More learning from case studies
Average Percentage CO Attainment		78.09%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.4718	Relating the theoretical with the existing case example and Understanding the planner's role in detail	
PO2	1.4359	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PO3	1.4359	Detail discussion on the assignments	
PO4	-		
PO5	1.1487	Giving more references of books, articles and authorized websites	
PO6	-		
PO7	1.1487	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PO8	-		
PO9	1.0530	Understanding the planner's role in detail	
PSO1	1.292	Site Visits to Bridge a gap between Theoretical and Practical Knowledge	
PSO2	1.148	Site Visits and Interaction with planning authority office	
PSO3	1.220	Understanding the planners role in detail	



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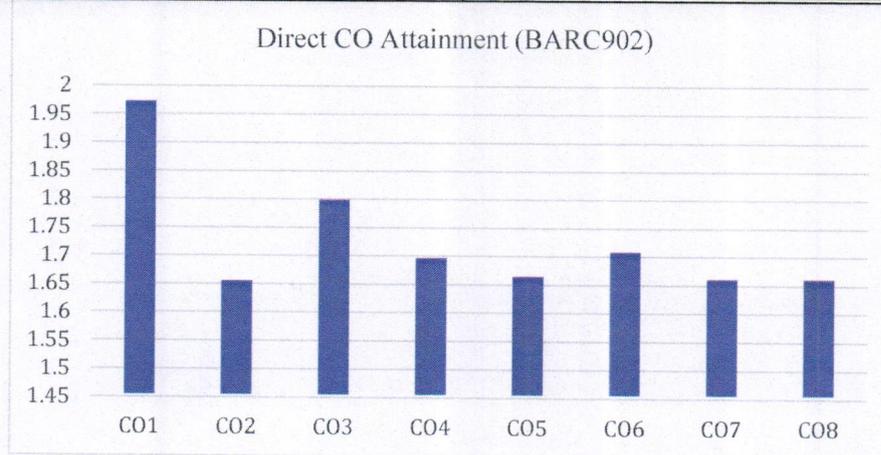
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Average % PO & PSO Attainment	42.74% & 40.66%
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Program	: Fifth Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional (100 Marks)												
Course	: Architectural Building Construction 8												
Course Code	: BARC903												
Semester/Faculty	: 9/Ar.Varsha & Ar.Kamakshi												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	-	-	3	-	3		-	3	3	-	-	3.000
CO2	3	2	2.5	-	-	-	2.5	-	-	3	2	2	2.428
CO3	3	2	2.5	-	-	-	2.5	-	-	3	2	2	2.428
CO4	3	2	2.5	-	-	-	2.5	-	-	3	2	2	2.428
CO5	3	2	2.5	-	-	-	2.5	-	-	3	2	2	2.428
CO6	3	2	2.5	-	-	-	2.5	-	-	3	2	2	2.428
CO7	3	2	2.5	-	-	-	-	3	3	3	3	2	2.687
CO8	3	2.5	2.5	-	-	3	-	3	3	3	3	2	2.777



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

Date :

Avg. PO	3	2.071	2.5	3	-	3	2.5	3	3	3	2.286	2	2.575
Correlation Levels : 1 – Low, 2 – Moderate, 3 – Substantial, 0 – No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Knowing and understanding the broad range of long span structure, classification and concepts of long span structures in relation to the load transfer.		1.345		Learning through more number of case studies.								
CO2	Understanding the behaviour of components of long span structures and its performance under different loading conditions.		1.809		One-to-one discussions with students. Interaction with the expert from the field. Conduct site visits.								
CO3	Understanding the different structural systems and structural grids of the long span structures.		1.906		One-to-one discussions with students. Interaction with the expert from the field. Conduct site visits.								
CO4	Study and understand the current advanced construction materials, construction techniques and its application in long span & high rise/tall structures.		1.867		One-to-one discussions with students. Interaction with the expert from the field. Conduct site visits.								
CO5	Understand the construction methods, for various structural systems		1.794		One-to-one discussions with students. Interaction with the expert from the field. Conduct site visits.								
CO6	Holistic understanding through integrated approach i.e integration of theory of design of structures & building services		1.866		One-to-one discussions with students. Interaction with the expert from the field. Conduct site visits.								
CO7	Develop the ability to visualize and design the building as per the project requirements choosing the appropriate building materials and construction techniques and methods thereof. Preparation of the construction details drawing.		1.771		Arrange lectures from related courses								
CO8	Develop the ability to visualize and design the building as per the project requirements choosing the appropriate building materials and construction techniques and methods thereof. Preparation of the construction details drawing.		1.771		Training can be conducted for modern tools. Interaction with alumni related to their projects. Site visits to bridge the gap between theory and practice.								
Average Percentage CO Attainment			68.56%										
PO-PSO Attainment													
PO	PO Attainment	Corrective Measures											



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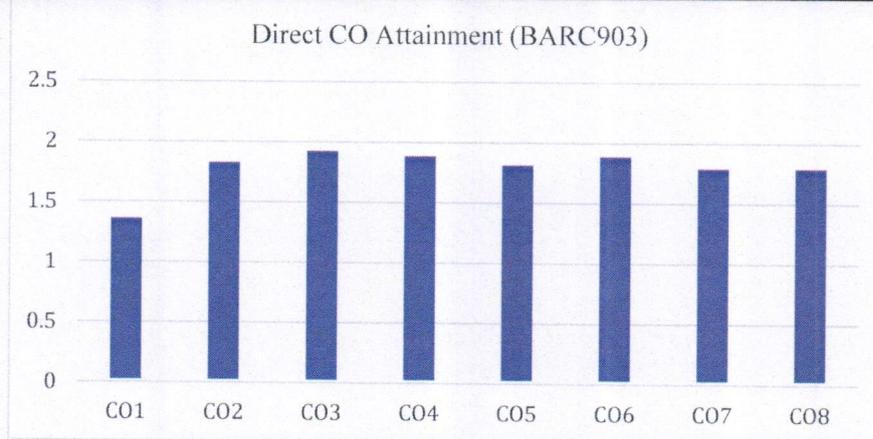
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PO1	1.766	Increase in book references.
PO2	1.219	Brain storming sessions.
PO3	1.472	One-to-one discussions with students, lectures by experts.
PO4	1.766	Training can be conducted for modern tools.
PO5	---	To restructure syllabus and add certificate course.
PO6	1.766	Explore sustainable materials and technology thereof. Participating in IGBC activities.
PO7	1.472	Conduct hands-on activities.
PO8	1.766	Research papers reference for application.
PO9	1.766	Attending conferences/seminars and workshops.
PSO1	1.766	Providing exposure through field study and case studies to improve analytical skill.
PSO2	1.346	Promote students for experimenting the knowledge gained through application.
PSO3	1.177	Motivating students for research.
Average % PO & PSO Attainment		56.49% & 61.27%



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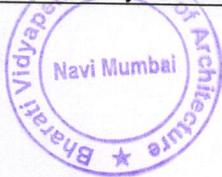
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Date :

Program		: Fifth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Jury (100 Marks)											
Course		: Design Dissertation 1											
Course Code		: BARC911											
Semester/Faculty		: 9/Ar.Shraddga & Ar.Tushar											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2	2	-	-	2	2	-	-	2	2	-	2	2.000
CO2	2	3	-	-	-	3	-	-	2	2	3	2	2.428
CO3	3	3	3	2	-	-	-	3	3	3	3	3	2.888
CO4	2	2	2	3	3	2	-	-	3	3	-	3	2.555
CO5	3	-	3	-	-	-	-	-	-	3	-	3	3.000
CO6	2	-	3	2	-	-	-	3	-	-	-	3	2.600
Avg. PO	2.333	2.500	2.750	2.333	2.500	2.333	-	3.000	2.500	2.600	3.000	2.667	2.578
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Research and exploration: Students should engage in research process to explore a specific architectural topic or problem which will involve background study, literature review, site analysis, case studies, and other research methodologies		1.8821		Predesign session with experts								
CO2	Critical thinking and evaluation: Students should be able to apply critical thinking skills and develop a research methodology to justify the project considering the social, cultural and environmental aspects		1.8765		Giving more references of books, articles and alumni talks								
CO3	Professionalism and Ethics: Students should understand and adhere to professional standards and ethical principles in architectural research demonstrating professionalism, integrity and accountability in their Design Dissertation		1.8778		Suggestions for identifying the case example with respect to student's individual research								





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CO4	Students should be able to develop a comprehensive design proposal based on their research findings.	1.8866	Conducting more surveys related to site analysis
CO5	Students should enhance their communication and presentation skills through the development of clear and coherent design documentation, effective visual representation techniques, and oral presentation skills. Students will learn to communicate their design research to a diverse audience, including their peers, faculty and jurors.	1.8674	Comparative analysis and evaluation of case example and site
CO6	Professional Development: The students should develop professionally through understanding the ethical responsibilities of architects, considering the social and cultural impacts of design, and developing a strong work ethic. Students should also learn management skills, including time management and organization.	1.8586	Lecture on presentation and communication skills
Average Percentage CO Attainment		72.72%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.4582	Predesign session with experts	
PO2	1.5624	Research Methodology lecture series	
PO3	1.7186	Detail discussion on the assignments	
PO4	1.4582	More attention Soft Skill development	
PO5	1.5624	Interaction with the different stakeholders related to the project	
PO6	1.4582	Relating EVS Subject to Design dissertation	
PO7	0.0000	-	
PO8	1.8749	More external reviews for better communication	
PO9	1.5624	More emphasis on live projects and practical experience	
PSO1	1.624	Predesign session with experts	
PSO2	1.874	More attention Soft Skill development	
PSO3	1.666	Understanding Architect's role in the society	
Average % PO & PSO Attainment		60.25% & 57.40%	





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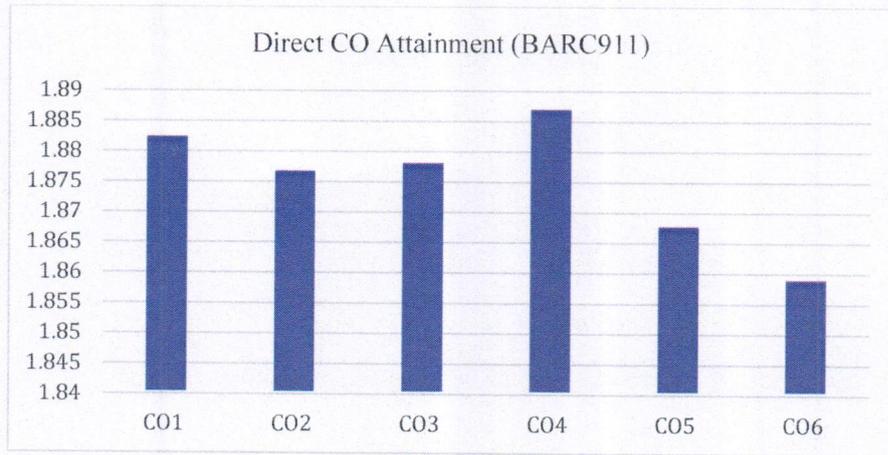
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SEMESTER 10




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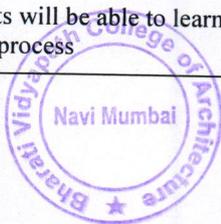
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Date :

Program		: Fifth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional (100 Marks)											
Course		: Environmental Studies 5											
Course Code		: BARC1006											
Semester/Faculty		: 10/Ar.Prachi & Ar.Anil											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2.5	2	3	-	-	3	-	-	-	2.5	2.5	2.5	2.57
CO2	2.5	2.5	-	-	-	-	-	-	-	2.5	2.5	2.5	2.50
CO3	2	3	-	-	-	2.5	-	-	-	2.5	2	2.5	2.41
CO4	3	2.5	2	-	-	2.5	-	-	-	2	3	2.5	2.50
CO5	3	-	2.5	-	-	2	-	-	-	2.5	2.5	2.5	2.50
CO6	2.5	2.5	-	-	-	2.5	-	-	-	2	2.5	3	2.50
Avg. PO	2.58	2.5	2.5	-	-	2.5	-	-	-	2.33	2.5	2.58	2.496
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students will learn to implement Environmental strategies in Architectural Design.		1.77		Remedial one to one discussion								
CO2	Students will analyse design through the tools for Post Occupancy reviews.		1.75		Case study assessment								
CO3	Students will evaluate Urban Environment and critiques it		1.79		Remedial lecture and discussion								
CO4	Students will evaluate and apply Sustainable Design strategies in Architectural Design		1.80		Remedial one to one discussion								
CO5	Students will be able to learn sustainable building design process		1.80		Remedial one to one discussion								





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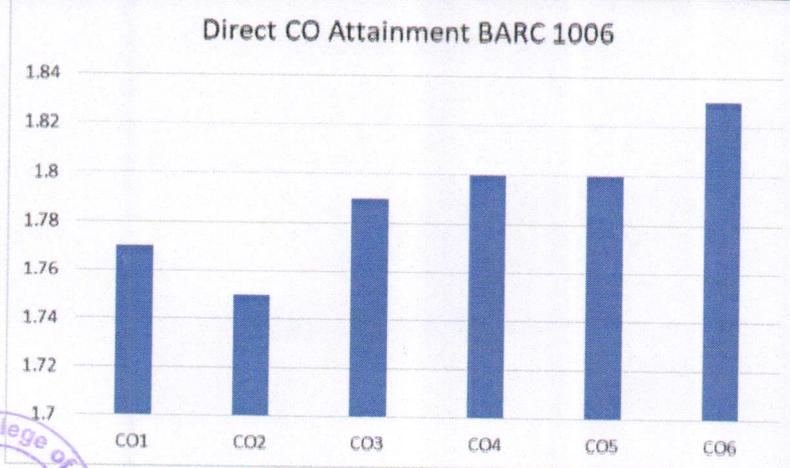
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CO6	Students will learn impact of built environment on surroundings	1.83	Case study assessment
Average Percentage CO Attainment		71.72%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.54	Remedial one to one discussion	
PO2	1.49	Case study assessment	
PO3	1.49	Remedial one to one discussion	
PO4	-	-	
PO5	-	-	
PO6	1.49	Remedial one to one discussion	
PO7	-	-	
PO8	-	-	
PO9	-	-	
PSO1	1.04	One to one discussions and clearing doubts	
PSO2	1.49	One to one discussions and clearing doubts	
PSO3	1.56	One to one discussions and clearing doubts	
Average % PO & PSO Attainment		50.08% & 45.22%	



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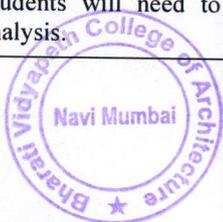
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Program		: Fifth Year B.Arch.											
Year		: 2022-2023											
Examination Scheme		: Internal/Sessional & Jury (200 Marks)											
Course		: Architectural Representation & Detailing 9											
Course Code		: BARC1007											
Semester/Faculty		: 10/Ar.Bhavika											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	1.5	-	2	-	-	-	2	3	3	2	-	2.357
CO2	1.5	-	3	-	-	-	-	2	3	2	2	-	2.250
CO3	3	-	3	2	2	3	1.5	-	3	3	3	3	2.60
CO4	3	3	2	-	1.5	2	-	-	2	3	2	2	2.277
CO5	2	3	-	2	-	3	-	1.5	3	3	2	-	2.437
CO6	2	-	-	-	-	-	2	-	2	3	-	-	2.250
CO7	2	2	1.5	2	-	2	-	-	2	3	-	-	2.071
CO8	2	-	2	2	2	2	2	-	2	3	3	3	2.300
Avg. PO	2.31	2.38	2.30	2.00	1.83	2.40	1.83	1.83	2.50	2.88	2.33	2.67	2.317
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students should be able to understand different types of site specific services which could be incorporated in their design dissertation.		1.634		Conduct more site visit for practical training								
CO2	Students should be capable of developing design that integrates the building services into planning.		1.634		Extra Remedial classes.								
CO3	Students should be aware about sustainable design solutions.		1.768		Organise extra guest lectures.								
CO4	Students will need to understand climate data analysis.		1.774		Conduct primary surveys and data collections.								





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CO5	Students will need to understand the methods of waste water treatment and there calculations.	1.766	Extra Remedial classes.
CO6	Students will need to understand the various firm norms to be considered while designing the projects which includes site level & building level.	1.631	Assign more group work
CO7	Students shall understand the consideration for daylight and artificial light along with natural ventilation and HVAC in building.	1.631	Organise more expert talks
CO8	Students will need to understand renewable energy strategies, waste management strategies.	1.778	Extra Remedial classes
Average Percentage CO Attainment		73.43%	
PO-PSO Attainment			
PO	PO Attainment	Corrective Measures	
PO1	1.31	Extra Remedial classes.	
PO2	1.35	Site visit and increased local interviews	
PO3	1.30	Design thinking workshops	
PO4	1.13	Software Skill development workshops.	
PO5	1.04	Increased local interviews and review similar case studies.	
PO6	1.36	Organise extra guest lectures.	
PO7	1.04	Re-structure schedule and involve more group discussions	
PO8	1.04	Extra Remedial classes.	
PO9	1.42	Involve more group discussions	
PSO1	0.966	Extra Remedial classes	
PSO2	1.448	Add more site visits	
PSO3	1.448	Organise extra guest lectures and Expert talk sessions	
Average % PO & PSO Attainment		47.48 % & 43%	



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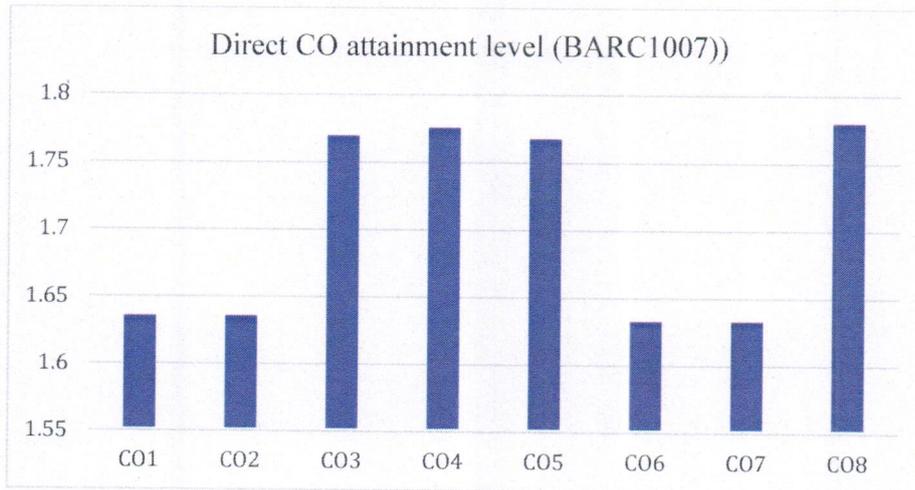
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Program	: Fifth Year B.Arch.												
Year	: 2022-2023												
Examination Scheme	: Internal/Sessional & Jury (400 Marks)												
Course	: Design Dissertation 2												
Course Code	: BARC1011												
Semester/Faculty	: 10/Ar.Shraddha & Ar.Yogita												
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	2.75	3	2	2	3	2	-	2	3	3	2.5	2	2.5
CO2	2.5	2	2.5	2.5	1.5	2.5	-	2	3	2	3	2	2.318
CO3	2	2.5	2	1	3	1.5	-	2	2.5	2	2	2	2.045
CO4	3	2	3	2	1	1.5	-	2	2.5	2	2	2.75	2.159
CO5	2.5	2.5	2.5	2	1.5	2.75	-	2	2	2	2	2	2.159
CO6	2	1.5	2.5	2.25	1	2	-	1.5	2	1.75	1.5	2	1.818
CO7	2.75	2	2.5	2.5	2.75	3	-	2.75	3	3	3	3	2.75
CO8	2	2.5	2.5	3	3	3	-	3	3	3	3	3	2.818





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Avg. PO	2.438	2.250	2.438	2.156	2.094	2.281	-	2.156	2.625	2.344	2.375	2.344	2.320
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Students should able to develop the design proposal which includes conceptualizing and developing a design solution that addresses the identified architectural problem.		1.9079		Workshop on Design Development through concept								
CO2	Innovative Design Exploration: The students should explore innovative and experimental approaches and challenge conventional norms, explore new design paradigms, and propose creative solutions that reflect their unique design philosophies.		1.9431		Emphasis on Innovation in design through more research								
CO3	Students should focus on integrating their design proposals seamlessly within the broader urban, cultural, and environmental contexts involving an in-depth analysis of the site, considering its historical significance, social dynamics, and ecological aspects responding harmoniously to the surroundings.		1.9158		Expert talks on topics like urban design, Ekistics								
CO4	Students will develop their design considering the spatial organization, material choices, structural systems, and building performance.		1.9300		Emphasis on more research in technology and intelligent building								
CO5	Students should strongly emphasis on ethical considerations and sustainable design principles that can contribute positively to society and the environment, addressing issues such as social equity, accessibility, energy efficiency, and climate resilience.		1.9300		Course on simulations and intelligent buildings								
CO6	Students should evaluate and enhance the design's functionality and sustainability through continuous iterations, model making, and digital simulations		1.9319		Lecture on presentation and communication skills								
CO7	Students should hone their presentation and communication skills to effectively convey their design ideas to the professional audience which includes preparing comprehensive design documentation, architectural drawings, virtual walkthroughs, and persuasive oral presentations.		1.9100		Lecture on presentation and communication skills								
CO8	The student should aim to cultivate their ability to articulate and defend their ideas confidently.		1.9939		Confidence boosting sessions								
Average Percentage CO Attainment			83.33%										





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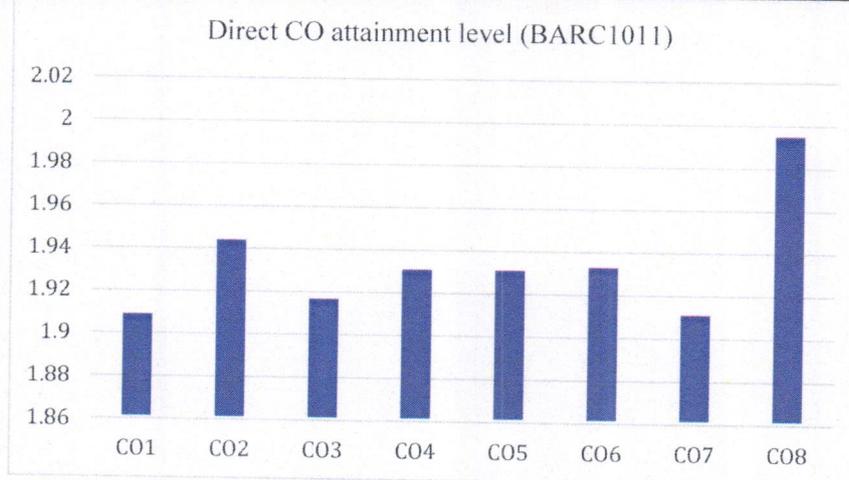
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PO-PSO Attainment		
PO	PO Attainment	Corrective Measures
PO1	1.5704	Case Study required
PO2	1.4496	Research Methodology lecture series
PO3	1.5704	More reviews required
PO4	1.3892	Sessions on Soft Skill development
PO5	1.3490	Interaction with the different stakeholders related to the project
PO6	1.4698	Relating EVS Subject to Design dissertation
PO7	0.0000	-
PO8	1.3892	More external reviews for better communication
PO9	1.6912	More emphasis on live projects and practical experience
PSO1	1.510	Pre-design session with experts
PSO2	1.530	More attention Soft Skill development
PSO3	1.510	Understanding Architect's role in the society
Average % PO & PSO Attainment		56.55% & 50.55%



Program	: Fifth Year B.Arch.
Year	: 2022-2023
Examination Scheme	: Internal/Sessional (100 Marks)
Course	: Advanced Building Construction & Structures
Course Code	: BARC1012





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Semester/Faculty		: 10/Ar.Varsha & Dr.Deepak											
CO-PO Mapping													
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PSO 01	PSO 02	PSO 03	Avg. CO
CO1	3	2	-	2	-	-	-	-	-	3	2.5	-	2.500
CO2	3	1.5	3	2	-	1.5	3	-	-	3	3	-	2.500
CO3	3	2	3	2	-	-	-	-	-	2	2	-	2.333
CO4	3	3	2.5	2	-	-	2.5	-	-	2	2	3	2.500
CO5	-	3	2.5	3	-	-	-	2	-	2	1.5	2.5	2.350
CO6	3	3	3	2	-	-	2	-	3	2	1.5	3	2.500
Avg-PO	3	2.417	2.8	2.167	-	1.5	2.5	2	3	2.333	2.083	2.833	2.447
Correlation Levels : 1 - Low, 2 - Moderate, 3 - Substantial, 0 - No Correlation													
CO Attainment (Direct & Indirect method)													
CO	CO Statement		Final CO Attainment		Corrective Measures								
CO1	Knowing and understanding more about forms, building envelopes and Study and understanding of sustainable building materials.		1.792		Increase in number of case studies for understanding current practices. Material pallet to be prepared.								
CO2	Understanding structural systems and materials. Understanding the concept of intelligent structures and control of structural responses.		1.765		Learning through hands-on activities. Arranging experts lecture.								
CO3	Understanding structural grids and construction techniques.		1.774		Arranging experts lecture. Detailed discussion on case studies.								
CO4	Developing innovative and creative ideas of built form and designing the suitable built form having the focus of sustainability, choosing appropriate materials, method of construction and prepare drawings giving construction details for the dissertation project.		1.864		Site Visits to Bridge a gap between Theoretical and Practical Knowledge. Discussion on practical approaches on field visit.								
CO5	Designing of wall sections based on the form.		1.908		Remedial classes and one-to-one interaction.								
CO6	Selection of appropriate structural system and its application to the design dissertation project based on the site conditions and project requirements.		1.978		Site Visits to Bridge a gap between Theoretical and Practical Knowledge								
Average Percentage CO Attainment			75.46%										





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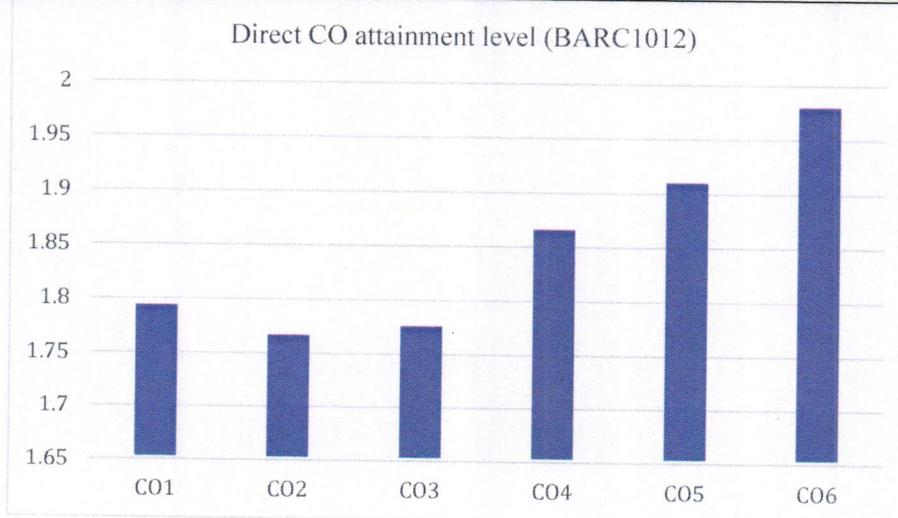
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PO-PSO Attainment		
PO	PO Attainment	Corrective Measures
PO1	1.847	Site Visits to Bridge a gap between Theoretical and Practical Knowledge
PO2	1.488	Learning through hands-on activities. Arranging experts lecture.
PO3	1.724	Increase in number of case studies for understanding current practices.
PO4	1.334	To arrange certificate courses for learning skill development tools.
PO5	—	Reframing of syllabus. Field work for awareness.
PO6	0.924	Training students and creating awareness to engage in social outreach initiatives to implement eco-friendly practices in construction activity.
PO7	1.539	Introducing assignments and activities in group of students.
PO8	1.231	Communication with experts.
PO9	1.847	Assimilate the knowledge and design and create environmentally friendly built forms.
PSO1	1.436	Field study for first-hand information, Case studies and interaction with experts
PSO2	1.282	Interaction with experts, hands-on exercises, research for expansion of knowledge
PSO3	1.744	Sensitizing towards practices in the field of construction industry.
Average % PO & PSO Attainment		54.24% & 49.57%




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