



SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Kaikkurichi, Pudukkottai -622 303

www.sbec.edu.in

NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 2

Teaching-Learning and Evaluation

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.6. Student Performance and Learning Outcome (90)

2.6.2 Attainment of POs and COs are evaluated (20)

2021-2022

ATTAINMENT EVALUATION OF POs & COs

CIVIL ENGINEERING

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Department of Civil Engineering
Academic year: (2021 - 2022)
PO-PSO ATTAINMENT

PO/PSO	STATEMENT	TARGET	ATTAINED VALUE	ATTAINMENT %
PO1	Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.	2.67	2.55	95.24%
PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, natural sciences, and engineering sciences.	2.09	2.04	97.38%
PO3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.	1.65	1.58	95.60%
PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	1.38	1.28	92.78%
PO5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	1.07	1.05	97.80%
PO6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	1.46	1.37	93.45%
PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable	1.50	1.45	96.86%

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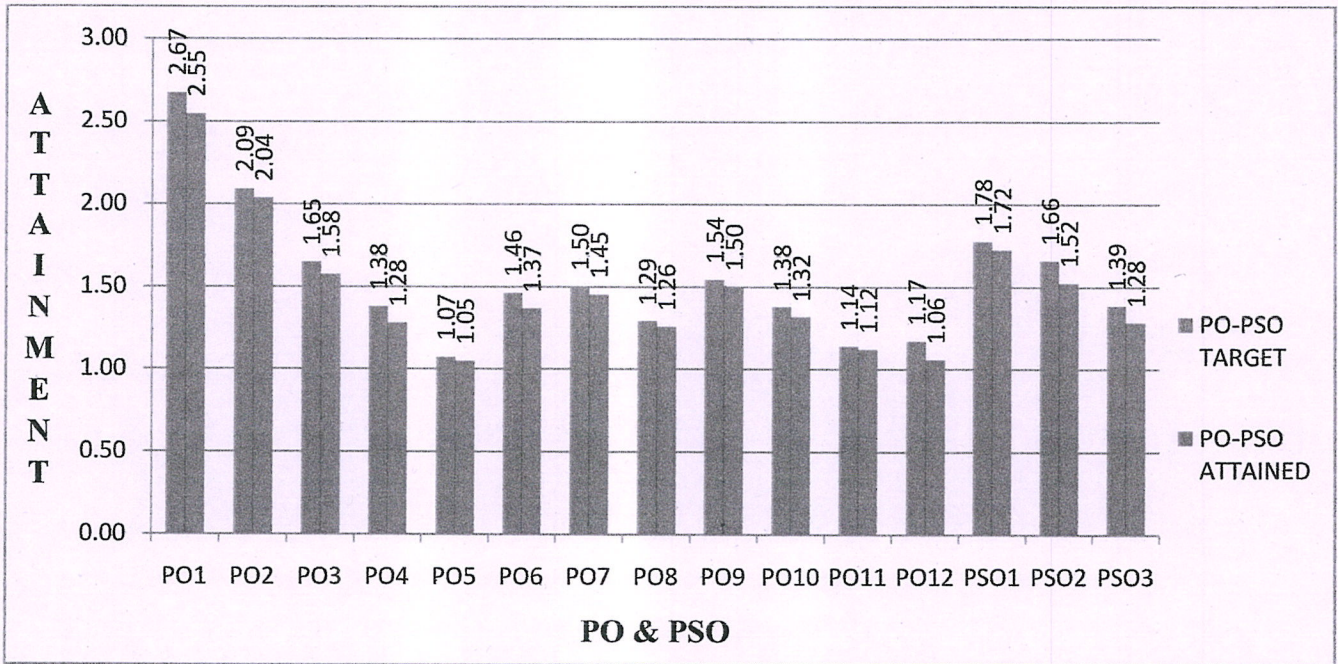
	development.			
PO8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.29	1.26	97.35%
PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.54	1.50	97.18%
PO10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.	1.38	1.32	95.48%
PO11	Demonstrate knowledge and explaining of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.	1.14	1.12	98.36%
PO12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.	1.17	1.06	90.34%
PSO1	Knowledge of Civil Engineering discipline Demonstrate in-depth knowledge of Civil Engineering discipline, with an ability to evaluate, analyze and synthesize existing and new knowledge.	1.78	1.72	97.13%
PSO2	Critical analysis of Civil Engineering problems and innovation Critically analyze comple Civil Engineering problems, apply independent judgment for synthesizing information and make innovative advances in a theoretical, practical and policy context.	1.66	1.52	91.87%
PSO3	Conceptualization and evaluation of engineering solutions to Civil Engineering Issues Conceptualize and solve Civil Engineering problems, evaluate potential solutions and arrive at technically feasible, economically viable and environmentally sound solutions with due consideration of health, safety, and socio cultural factors.	1.39	1.28	92.52%

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CIVIL DEPARTMENT
ACADEMIC YEAR 2021-2022
CO-PO-PSO TARGET AND ATTAINMENT



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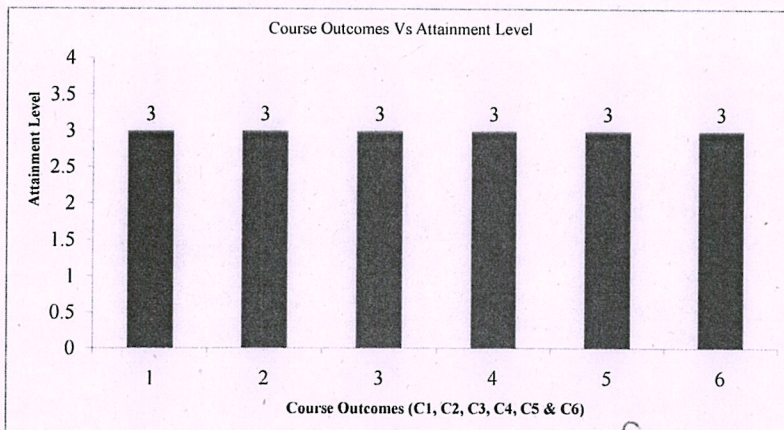
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DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering

Internal Assessment - Attainment of Course Outcomes (Through Direct Assessment)

ACADEMIC YEAR - 2021 - 22																		BATCH						2018-2022								
COURSE CODE/TITLE		CE8021(C409) / Structural Dynamics and Earthquake Engineering																COURSE OUTCOME														
YEAR / SEM		IV / VIII																TARGET(%)														
COURSE COORDINATOR		Mrs. R Padma Rani																TOTAL STRENGTH														
ATTAINMENT LEVEL		Level		Range																												
		1		UP TO 60% of the students scored more than target																												
		2		61 - 79% of the students scored more than target																												
		3		80% & ABOVE of the students scored more than target																												
S.NO	REG NO	NAME OF THE STUDENT	IAT 1 - MARKS ALLOTTED						IAT 2 - MARKS ALLOTTED						IAT 3 - MARKS ALLOTTED						Assignment / Mini Project / Tutorial / Seminar						TOTAL COURSE OUTCOME					
			C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6	C1	C2	C3	C4	C5	C6
			60	40							40	60							60	40	10	10				10	60	50	50	60	60	50
1	912618103005	MEENACHI K	49	32							33	49							53	35	9	8				7	49	41	41	49	53	42
2	912618103008	SATHYAM	53	36							35	53							57	38	9	7				8	53	45	42	53	57	46
3	912618103009	SRIVIDHYA S	58	38							39	58							59	40	8	8				9	58	46	47	58	59	49
4	912618103010	UMAMAHESWARI K	50	34							34	51							53	35	9	8				8	50	43	42	51	53	43
CO's Target Value																		39.0	32.5	32.5	39.0	39.0	32.5									
No. of Students scored above CO's Target Value																		4	4	4	4	4	4									
Percentage of Students scored above Target																		100.0	100.0	100.0	100.0	100.0	100.0									
CO Attainment																		3	3	3	3	3	3									
CO attainment Values to plot the Graph																		3	3	3	3	3	3									



[Signature]
Faculty Incharge

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DEPARTMENT OF CIVIL ENGINEERING

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION

ACADEMIC YEAR : 2021 - 2022 (EVEN SEM)

CLASS : IV CIVIL

Batch:2018-2022

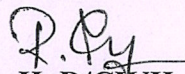
SUBJECT :CE8021(C409) / Structural Dynamics and Earthquake Engineering


CO Attainment Level: 1 - (UPTO 60%) 2- (61%-79%) 3-(80% and Above)

TOTAL STRENGTH : 4

S.NO	Register No	NAME	Univ. Grade	
1	912618103005	MEENACHI K	B+	
2	912618103008	SATHYA M	A	
3	912618103009	SRIVIDHYA S	A	
4	912618103010	UMAMAHESWARI K	B	
No. of O Grade			0	0
No. of A+ Grade			0	0
No. of A Grade			2	2
No. of B+ Grade			1	1
No. of B Grade			1	1
No. of U Grade			0	0
No. of UA Grade			0	0
Target for course outcome Attainment			60	4
No of students above the target			4	
CO-Attainment University (%)			100.00	


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Overall Attainment Sheet – COs - POs & PSOs attainment calculation

CO	CO-Attainment Internal (CO-INT) (Avg. Attainment of All section) (%)	CO-Attainment University (CO-UNI) (Avg. Attainment of All section) (%)	Direct CO Attainment (0.20xCO-INT + 0.80xCO-UNI) (%)	CO Attainment Level
C409.1	100.0	100.00	100.0	3
C409.2	100.0	100.00	100.0	3
C409.3	100.0	100.00	100.0	3
C409.4	100.0	100.00	100.0	3
C409.5	100.0	100.00	100.0	3
C409.6	100.0	100.00	100.0	3

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C409.1	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.2	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.3	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.4	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.5	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.6	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2

PO Attainment Level

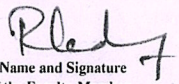
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C409.1	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.2	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.3	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.4	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.5	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409.6	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
C409	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2

Attainment of POs and PSOs:

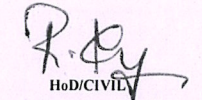
Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C409	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2
Attainment	3	2	2	1	-	1	-	1	3	-	1	1	3	2	2

Comments by
Program
Coordinator

Remarks by
HoD


Name and Signature
of the Faculty Member
R. PADMA RANI


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DEPARTMENT OF CIVIL ENGINEERING

ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT

ACADEMIC YEAR 2021-2022

In order to bridge the gap between the attained level with respect to the target level in each POs and PSOs, the following corrective measures were taken.

S.NO	NAME OF THE ACTIVITY PROPOSED	FOCUSED POS & PSOS
1.	Value Added Course (VAC) - Construction Safety and Practices.	PO1,PO2,PO3,PO4,PO5,PO9,PO10, PO12, PSO1,PSO2,PSO3
2.	Entrepreneurship & Development cell (EDC) - Inspiring Women Entrepreneurs in Technology - Breaking the Glass Ceiling.	PO6,PO7,PO8,PO11
3.	Intellectual Property Rights (IPR) – Patents, copyright and trademarks: A Comprehensive guide to IPR protection.	PO6,PO7,PO8,PO11
4.	Language and Communication Technology (LCT) - Modern trends in English.	PO9,PO10
5.	Soft Skill Program - Critical thinking.	PO10
6.	Life Skill Program – Meditation.	PO8
7.	Information Communication Technology (ICT) tools – Simulation and Analysis Tools in CAD.	PO5,PO12
8.	Research Methodology (RM) - Modern Construction Practices.	PO1,PO2,PO3,PO4,PSO1,PSO2,PSO3

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