



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



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

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)

2022-2023

ATTAINMENT EVALUATION OF POs & COs

CIVIL ENGINEERING

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Department of Civil Engineering
Academic year: (2022 - 2023)
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.	2.82	2.46	87.47%
PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, natural sciences, and engineering sciences.	2.32	2.03	87.83%
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.	1.78	1.57	88.16%
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.	1.54	1.37	88.65%
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.	1.50	1.42	94.42%
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.	1.43	1.30	91.14%
PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.	1.65	1.55	93.95%
PO8	Apply ethical principles and commit to professional ethics and	1.37	1.31	95.54%

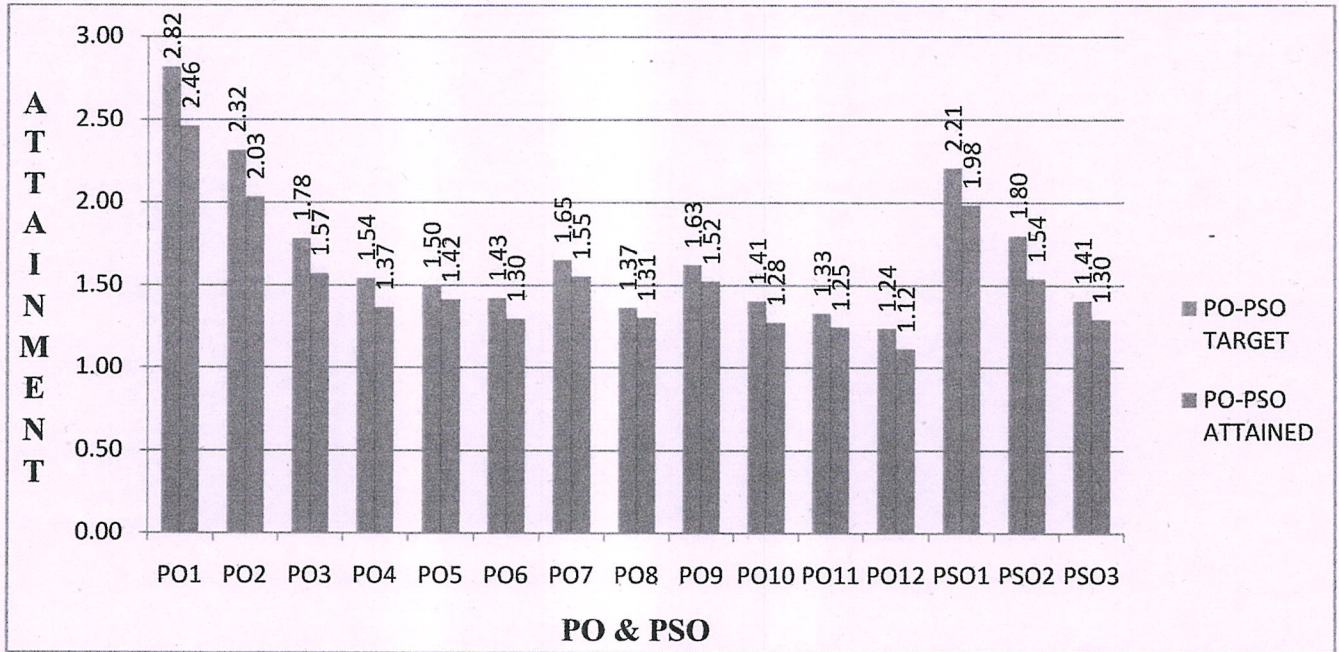
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	responsibilities and norms of the engineering practice.			
PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.63	1.52	93.83%
PO10	Communicate effectively on complex engineering 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.	1.41	1.28	90.80%
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.	1.33	1.25	93.63%
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.	1.24	1.12	89.82%
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.	2.21	1.98	89.81%
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.	1.80	1.54	85.58%
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.	1.41	1.30	91.97%

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CIVIL DEPARTMENT
ACADEMIC YEAR 2022-2023
CO-PO-PSO TARGET AND ATTAINMENT



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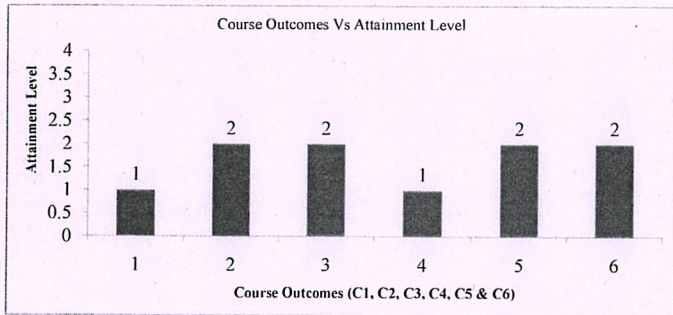


SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, KAIKKURICHI

Department of Civil Engineering

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

ACADEMIC YEAR - 2022 - 23										BATCH						2021 - 2025																
COURSE CODE/TITLE		CE3404 (C213) / Soil Mechanics																														
YEAR/SEM		II / IV																														
COURSE COORDINATOR		Ms Raci Mahizhimi																														
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
1	912621103001	AKILA G	34	25	25							40	30	30							10	10		10	10	40	40	40	40	40	40	
2	912621103003	JAYABHARATHI R	35	27	27							31	23	23							7	9		8	8	35	34	36	31	31	31	
3	912621103004	JAYA MANOHARI B	37	27	27							29	22	22							7	9		8	8	37	34	36	29	30	30	
4	912621103005	PRIYADHARSHINI A	29	23	23							25	20	20							8	8		7	8	29	31	31	25	27	28	
5	912621103006	RABIA BANU M	16	11	11							28	22	22							8	7		8	7	16	19	18	28	30	29	
6	912621103007	SHERLIN KAVYA B	34	25	25							30	23	23							8	8		7	8	34	33	33	30	30	31	
7	912621103301	JENIFAR A	25	20	20							21	16	16							9	7		8	9	25	29	27	21	24	25	
8	912621103302	KALAIARASI G	24	18	18							21	16	16							7	7		8	9	24	25	25	21	24	25	
			CO's Target Value																								26.0	26.0	26.0	26.0	26.0	26.0
			No. of Students scored above CO's Target Value																								5	6	6	5	6	6
			Percentage of Students scored above Target																								62.5	75.0	75.0	62.5	75.0	75.0
			CO Attainment																								1	2	2	1	2	2
			CO attainment Values to plot the Graph																								1	2	2	1	2	2



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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
DEPARTMENT OF CIVIL ENGINEERING
COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION
ACADEMIC YEAR : 2022 - 2023 (EVEN SEM)

YEAR /SEM: II/ IV

Batch:2021-2025


SUBJECT : CE3404 (C213) / Soil Mechanics


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

TOTAL STRENGTH : 8

S.NO	Register No	NAME	Univ. Grade	
1	912621103001	AKILA G	A	
2	912621103003	JAYABHARATHI R	B+	
3	912621103004	JAYA MANOHARI B	B+	
4	912621103005	PRIYADHARSHINI A	U	
5	912621103006	RABIA BANU M	B	
6	912621103007	SHERLIN KAVYA B	B+	
7	912621103301	JENIFAR A	U	
8	912621103302	KALAIARASI G	U	
No. of O Grade			0	0
No. of A+ Grade			0	0
No. of A Grade			1	1
No. of B+ Grade			3	3
No. of B Grade			1	1
No. of C Grade			0	0
No. of U Grade			3	3
No. of UA Grade			0	0
Target for course outcome Attainment			60	8
No of students above the target			5	
CO-Attainment University (%)			62.50	

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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
C213.1	62.5	62.50	62.5	2
C213.2	75.0	62.50	65.0	2
C213.3	75.0	62.50	65.0	2
C213.4	62.5	62.50	62.5	2
C213.5	75.0	62.50	65.0	2
C213.6	75.0	62.50	65.0	2

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	3	2	2	1	-	1	-	-	1	1	1	1	2	2	1
C213.2	3	2	2	1	-	1	-	-	1	1	1	1	2	2	1
C213.3	3	2	2	1	-	-	-	-	1	1	1	-	2	2	1
C213.4	3	2	2	1	-	-	-	-	1	1	1	-	2	2	1
C213.5	3	2	2	1	-	-	-	-	1	1	1	1	2	2	1
C213.6	3	2	2	1	-	-	-	-	1	1	1	1	2	2	1
C213	3	2	2	1	-	1	-	-	1	1	1	1	2	2	1

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213.1	2	1.33	1.33	0.67	-	0.67	-	-	0.67	0.67	0.67	0.67	1.33	1.33	0.67
C213.2	2	1.33	1.33	0.67	-	0.67	-	-	0.67	0.67	0.67	0.67	1.33	1.33	0.67
C213.3	2	1.33	1.33	0.67	-	-	-	-	0.67	0.67	0.67	-	1.33	1.33	0.67
C213.4	2	1.33	1.33	0.67	-	-	-	-	0.67	0.67	0.67	-	1.33	1.33	0.67
C213.5	2	1.33	1.33	0.67	-	-	-	-	0.67	0.67	0.67	0.67	1.33	1.33	0.67
C213.6	2	1.33	1.33	0.67	-	-	-	-	0.67	0.67	0.67	0.67	1.33	1.33	0.67
C213	2	1.33	1.33	0.67	-	0.67	-	-	0.67	0.67	0.67	0.67	1.33	1.33	0.67

Attainment of POs and PSOs:

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C213	3	2	2	1	-	1	-	-	1	1	1	1	2	2	1
Attainment	2	1.33	1.33	0.67	-	0.67	-	-	0.67	0.67	0.67	0.67	1.33	1.33	0.67

Comments by Program Coordinator

- 1.
- 2.

Remarks by HoD

Name and Signature of the Faculty Member

1009

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DEPARTMENT OF CIVIL ENGINEERING

ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT

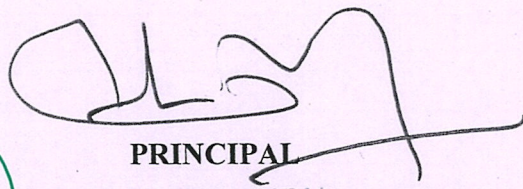
ACADEMIC YEAR 2022-2023

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) - Advanced surveying on total station.	PO1,PO2,PO3,PO4,PO5,PO9,PO10, PO12, PSO1,PSO2,PSO3
2.	Entrepreneurship & Development cell (EDC) - Awareness about Entrepreneurship, innovation and importance of an E&I cell.	PO6,PO7,PO8,PO11
3.	Intellectual Property Rights (IPR) - Role of IPR in green technologies.	PO6,PO7,PO8,PO11
4.	Language and Communication Technology (LCT) - Effect of Technology in Intercultural Communication.	PO9,PO10
5.	Soft Skill Program - Way from campus to corporate.	PO10
6.	Life Skill Program - Entrepreneurship and Innovation.	PO8
7.	Information Communication Technology (ICT) tools – AI in communication tools.	PO5,PO12
8.	Research Methodology (RM) - Construction safety management.	PO1,PO2,PO3,PO4,PSO1,PSO2,PSO3


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