



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)

2019-2020

ATTAINMENT EVALUATION OF POs & COs

CIVIL ENGINEERING

Table of Content

S.No	Particulars	Page No
1	CO-PO-PSO Attainment Report	3 - 5
2	CO-PO Attainment Sample Sheet	6 - 8
3	Action taken Report	9



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
Kaikkurichi, Pudukkottai-622-303.

Department of Civil Engineering
Academic year: (2019 - 2020)
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.	2.65	2.32	87.71%
PO2	Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, natural sciences, and engineering sciences.	2.00	1.76	88.15%
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.	1.61	1.42	87.96%
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.	1.33	1.17	87.72%
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.	1.06	1.00	94.12%
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.	1.49	1.32	88.69%
PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge and need for sustainable development.	1.46	1.06	72.53%

Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.

PO8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.39	1.17	84.41%
PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.38	1.22	88.12%
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.	1.36	1.15	84.41%
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.	1.10	0.98	89.25%
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.	1.13	0.98	86.46%
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.	1.70	1.50	88.03%
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.	1.60	1.34	84.16%
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.	1.42	1.20	84.40%

Dr. S. THILAGAVATHI M.E., Ph.D.

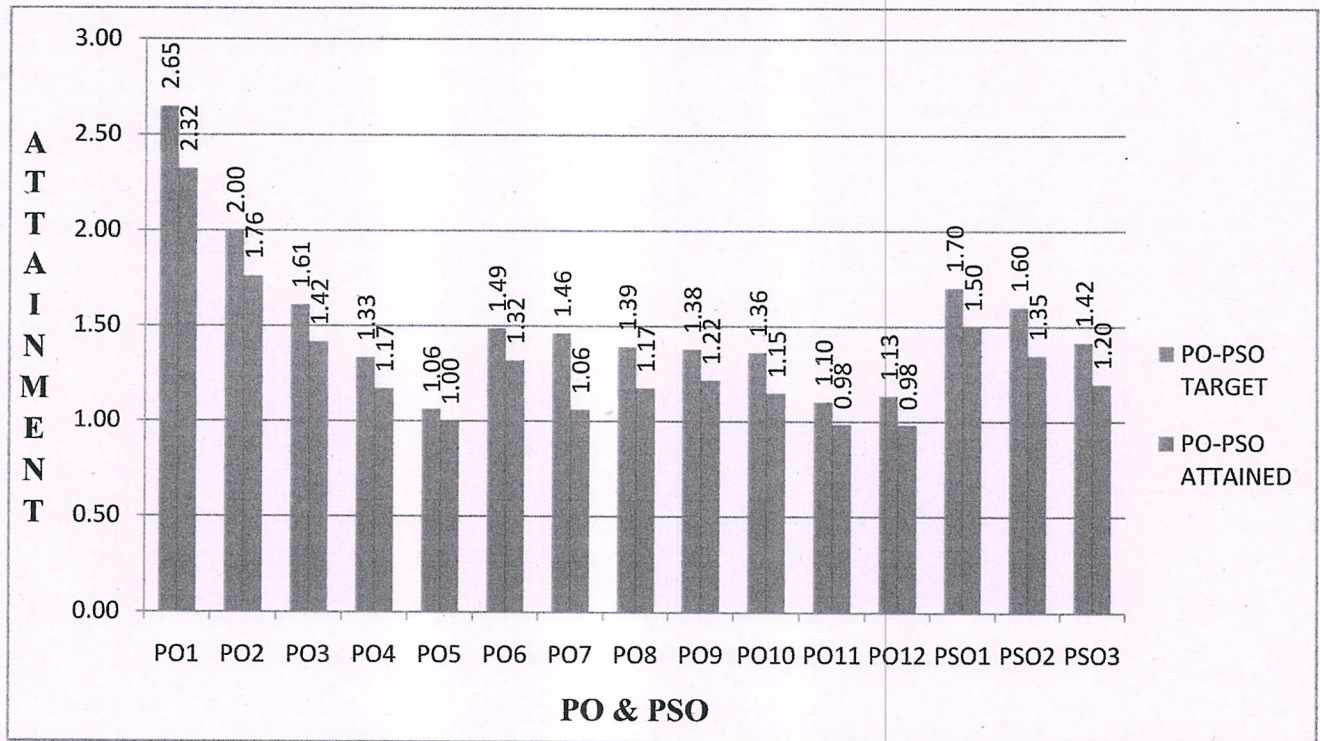
PRINCIPAL

SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkottai Dt.

CIVIL DEPARTMENT
ACADEMIC YEAR 2019-2020
CO-PO-PSO TARGET AND ATTAINMENT



P. Py
HOD/Civil
HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

[Signature]
PRINCIPAL
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT

[Signature]
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

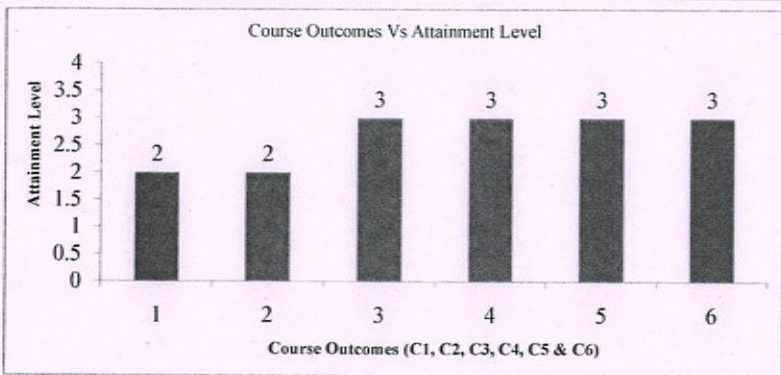


SRI BHARATHI ENGINEERING COLLEGE FORWOMEN

Department of Civil Engineering

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

ACADEMIC YEAR - 2019 - 20		BATCH		2017-2021																												
COURSE CODE/TITLE	CE8601 DESIGN OF STEEL STRUCTURAL ELEMENTS	COURSE OUTCOME		1	2	3	4	5	6																							
YEAR/ SEMESTER	III / VI	TARGET(%)		65	65	65	65	65	65																							
COURSE COORDINATOR	G. GAYATHRI	TOTAL STRENGTH		11																												
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							60	40									10	10			10	10	70	50	60	40	10	10
1	912617103001	CHANDRIKA C	46	30							40	27									8	8			8	7	54	38	40	27	8	7
2	912617103002	DHESIKAPARTHI D	37	24							41	28									9	9			7	9	46	33	41	28	7	9
3	912617103003	KARTHIKA K	43	29							50	33									8	8			8	8	51	37	50	33	8	8
4	912617103004	KASTHURI K	58	38							40	27									8	8			8	7	66	46	40	27	8	7
5	912617103005	MONIKA K	52	34							44	30									8	8			8	8	60	42	44	30	8	8
6	912617103006	MUTHUMEENA P	56	37							52	34									8	8			8	8	64	45	52	34	8	8
7	912617103007	POTHUMPEN A	31	20							35	24									9	9			8	7	40	29	35	24	8	7
8	912617103008	PRIYADHARSHINI S	25	17							39	26									9	9			7	8	34	26	39	26	7	8
9	912617103009	RAJESWARI J	47	32							55	37									8	8			8	8	55	40	55	37	8	8
10	912617103010	SIVAPRIYA S	27	18							40	26									9	9			7	9	36	27	40	26	7	9
11	912617103701	LAKSHMI A	53	36							59	39									9	9			7	9	62	45	59	39	7	9
				CO's Target Value		45.5	32.5	39.0	26.0	6.5	6.5																					
				No. of Students scored above CO's Target Value		8	8	10	10	11	11																					
				Percentage of Students scored above Target		72.7	72.7	90.9	100.0	100.0	100.0																					
				CO Attainment		2	2	3	3	3	3																					
				CO attainment Values to plot the Graph		2	2	3	3	3	3																					



Faculty Incharge

Dr. S. THILAGAVATHI M.E., Ph.D.,
 PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
 Kaikkurchi - 622 303, Pudukkottai Dt.

HOD / CIVIL
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
 KAIKKURCHI,
 PUDUKKOTTAI - 622 303



SRI BHARATHI ENGINEERING COLLEGE FORWOMEN
DEPARTMENT OF CIVIL ENGINEERING
COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION
ACADEMIC YEAR : 2019 - 2020 (ODD SEM)

CLASS /SEC: III CIVIL

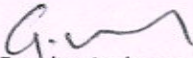
Batch:2017-2021

SUBJECT :CE8601 DESIGN OS STEEL STRUCTURAL ELEMENTS

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

TOTAL STRENGTH : 11

S.NO	Register No	NAME	Univ. Grade	
1	912617103001	CHANDRIKA C	B+	
2	912617103002	DHESIKAPARTHI D	B+	
3	912617103003	KARTHIKA K	A	
4	912617103004	KASTHURI K	A	
5	912617103005	MONIKA K	A	
6	912617103006	MUTHUMEENA P	A+	
7	912617103007	POTHUMPEN A	B	
8	912617103008	PRIYADHARSHINI S	B	
9	912617103009	RAJESWARI J	A	
10	912617103010	SIVAPRIYA S	B	
11	912617103701	LAKSHMI A	A+	
No. of O Grade			0	0
No. of A+ Grade			2	2
No. of A Grade			4	4
No. of B+ Grade			2	2
No. of B Grade			3	3
No. of U Grade			0	0
No. of UA Grade			0	0
Target for course outcome Attainment			60	11
No of students above the target			11	
CO-Attainment University (%)			100.00	


Faculty Incharge


HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303


Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.

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
C310.1	72.7	100.00	94.5	3
C310.2	72.7	100.00	94.5	3
C310.3	90.9	100.00	98.2	3
C310.4	90.9	100.00	98.2	3
C310.5	100.0	100.00	100.0	3
C310.6	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
C310.1	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.2	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.3	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.4	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.5	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.6	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C310.1	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.2	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.3	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.4	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.5	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310.6	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
C310	3	3	3	2	-	-	-	-	1	2	-	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
C310	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2
Attainment	3	3	3	2	-	-	-	-	1	2	-	1	3	2	2

Comments by
Program
Coordinator 1.
2.

Remarks by HoD

G. Gayathri, AP/CEM

Name and Signature
of the Faculty Member

P. Jayaram
HOD/CIVIL

HOD / CIVIL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303

S. Thilagavathi
Dr. S. THILAGAVATHI M.E., Ph.D.,
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)
KAIKKURICHI, PUDUKKOTTAI-622-303


DEPARTMENT OF CIVIL ENGINEERING

ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT

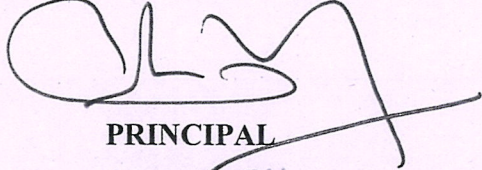
ACADEMIC YEAR 2019-2020

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) -Smart Materials and Measuring Techniques.	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PO12, PSO1,PSO2,PSO3
2.	Entrepreneurship & Development cell (EDC) - Strategies for Overcoming Gender Bias in Tech Entrepreneurship.	PO6,PO7,PO8,PO11
3.	Intellectual Property Rights (IPR) - International Perspectives on IPR.	PO6,PO7,PO8,PO11
4.	Language and Communication Technology (LCT) - Mastering the art of communication.	PO9,PO10
5.	Soft Skill Program - Mastering in multitasking.	PO10
6.	Life Skill Program - The use of hand sanitizer and face mask.	PO8
7.	Information Communication Technology (ICT) tools - PHP and MYSQL: Database connectivity and data manipulation.	PO5,PO12
8.	Research Methodology (RM) - Green Construction for Sustainable Development.	PO1,PO2,PO3,PO4,PSO1,PSO2,PSO3


HoD/Civil
HOD / CIVIL

SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI,
PUDUKKOTTAI - 622 303


PRINCIPAL

PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
KAIKKURICHI -622 303.
PUDUKKOTTAI DISTRICT


Dr. S.THILAGAVATHI M.E., Ph.D.
PRINCIPAL
SRI BHARATHI ENGINEERING
COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai Dt.