

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

TOTAL COLLEGE COLLEGE

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 ELECTRICAL AND ELECTRONICS

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ENGINEERING

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Manual Property of the Propert

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING Academic year (2022 - 2023)

PO-PSO ATTAINMENT

PO/PSO	STATEMENT	TARGET	ATTAINED VALUE	ATTAINMENT %
PO1	Apply knowledge of mathematics, basic science and engineering science	2.79	2.23	79.86
PO2	Identify, formulate and solve engineering problems.	2.48	2.00	80.45
PO3	Design an electrical system or process to improve its performance, satisfying its constraints	2.13	1.76	82.55
PO4	Conduct experiments in electrical and electronics systems and interpret the data	1.89	1.58	84.03
PO5	Apply various tools and techniques to improve the efficiency of the system	1.72	1.48	86.26
PO6	Conduct themselves to uphold the professional and social obligations	1.80	1.60	88.92
PO7	Design the system with environment consciousness and sustainable development	1.71	1.42	83.42
PO8	Interacting industry, business and society in a professional and ethical manner	1.91	1.85	96.81
PO9	Function in a multidisciplinary team.	1.82	1.75	96.08
PO10	Proficiency in oral and written Communication	1.65	1.39	84.30
PO11	Implement cost effective and improved system	1.93	1.84	95.41
PO12	Continue professional development and learning as a life-long activity.	1.41	1.18	83.37
PSO1	Ability to understand the principles and working of electrical components, circuits, systems and control that are forming a part of power generation, transmission, distribution, utilization, conservation and energy saving. Students can assess the power management, auditing, crisis and energy saving aspects.	2.72	2.24	82.22
PSO2	Ability to apply mathematical methodologies to solve problems related with electrical engineering using appropriate engineering tools and algorithms.	1.98	1.60	80.75
PS03	Computing and Research Ability: Ability to use knowledge in various domains to identify research gaps and hence to provide solution which leads to new ideas and innovations.	1.60	1.42	88.84

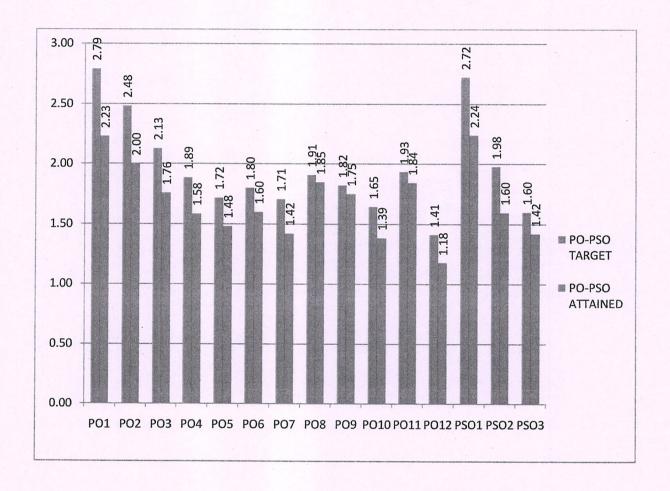
Dr. S.THILAGAVATHI M.E., Ph.D.,

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

EEE DEPARTMENT

ACADEMIC YEAR 2022-2023

CO-PO-PSO TARGET AND ATTAINMENT



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KAKKURICHI

PUDUKKOTTAL-627 300

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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.



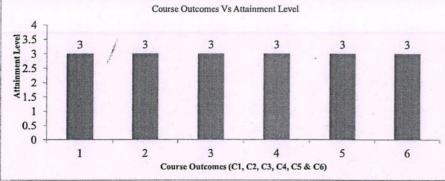
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Department of Electrical and Electronics Engineering

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

		4011			In	terna	II As	sessr	nent	-Att	ainmer	nt of C	ourse	e Ou	tcor	mes (Chro	ugh .	Direc	t Ass	sessm	ent)										
				ACA	DEM	IC YE	AR - 2	022 - 2	2023														В	ATCH					2021 - 2	2025	No.	
cou	RSE CODE/TITLE	EE3403/MEASUREMENTS AN	ND INST	RUME	NTAT	ION												1000		1	COURSE OUTCOME				1	2	3	4	5	6		
	YEAR/SEM	II/IV																					TAR	GET(%	6)		65	65	65	65	65	65
C	COURSE	Mrs.P. BOWRNILA					Y						A						-			т	OTAL	STREN	GTH				2			1
		Level	N.															I	ange													
A TT.	AINMENT LEVEL	1		UP TO 60% of the students scored more than target																												
All	AINMENT LEVEL	2		61 - 79% of the students scored more than target																												
		3												80	% &	ABOV	E of t	he stu	ients s	cored	more	than t	arget								1	
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S.NO	REG NO	NAME OF THE STUDENT	CI	C2	СЗ	C4	C5	C6	Cı	C2	СЗ	C4	C5	C6	C	1 C2	C3	C4	C5	Ce	Cı	C2	C3	C4	C5	C6	CI	C2	СЗ	C4	C5	C
			40	30	30							40	30	30							17	10	10		10	10	40	40	40	40	40	40
1	912621105001	GOKULAPRAVEENA A	30	22	22							28	21	21								7	8		8	8	30	29	30	28	29	2
2	912621105004	SUMITHRA S	31	31 23 23 37 28 28 8 8 9 8 31 31 31 37 37 3								30																				
																		CO's	Target	Valu	e	-					26.0	26.0	26.0	26.0	26.0	26
		Course Outcomes Vs Att	tainment	Level												No. of											2	2	2	2	2	2
4	7												•			Per	centage				above	Target					100.0	100.0	100.0	100.0	100.0	100
₹3.5				_															Attain								3	3	3	3	3	3
5	3 /	3 3		3	3 CO attainment Values to plot the Graph 3 3 3 3 3 3																											



Faculty Incharge

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

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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DEPARTMENT OF EEE

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION ACADEMIC YEAR: 2022 - 2023 (EVEN SEM)

YEAR/SEM: II/IV

Batch: 2021-2025

SUBJECT: EE3403 - MEASUREMENTS AND INSTRUMENTATION

CO Attainment Level: 1 - (UPTO 60%) 2- (61%-79%)

3-(80% and Above)

TOTAL STRENGTH:

S.NO	Register No	NAME	Univ. Grade
1	912621105001	GOKULAPRAVEENA A	В
2	912621105004	SUMITHRA S	B+

No. of O Grade	0	0
No. of A+ Grade	0	0
No. of A Grade	Ō	0
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	2
No of students above the target	2	
CO-Attainment University (%)	100.00	

p. Boir **Faculty Incharge**

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BHARATHI ENGINEERING COLLEGE FOR WOMEN KANKKURICHI.

PUDUKKOTTAI - 622 308.

Overall Attainment Sheet - COs - POs & PSOs attainment calculation

со	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
C214.1	100.0	100.00	100.0	3
C214.2	100.0	100.00	100.0	3
C214.3	100.0	100.00	100.0	3
C214.4	100.0	100.00	100.0	3
C214.5	100.0	100.00	100.0	3
C214.6	100.0	100.00	100.0	3

Expected CO-PO Level

Course	POI	PO2	PO3	PO4	PO5	PO6	PO7	P08	P09	PO10	PO11	PO12	PSOI	PSO2	PSO3
C214.1	3	3	2	2		2		2		2		2	3	1	1
C214.2	3	3	2	2						2		2	3	1	1
C214.3	3	3	2	2		2				2		2	3	1	1
C214.4	3	3	2	2				2		2			3	1	1
C214.5	3	3	2	2	-		-		-	2			- 3	1	1
C214.6	3	3	2	2						2		2	3	1	1
C214	3	3	2	2		2	-	2		2		2	3	1	1

PO Attainment Level

	the state of the s														
Course	PO1	PO2	PO3	P04	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C214.1	3	3	2	2		2	-	2		2	-	2	3	1	1
C214.2	3	3	2	2					-	2		2	3	1	1
C214.3	3	3	2	2		2				2		2	3	1	1
C214.4	3	3	2	2				2		2	d		3	1	1
C214.5	3	3	2	2		-				2			3	1	1
C214.6	3	3	2	2						2		2	3	1	1
C214	3	3	2	2		2		2	-	2	-	2	3	1	1

			Attaillin	ent of ros and roos.		ALC: N									
Course Code	PO1	PO2	PO3	P04	PO5	PO6	P07	PO8	PO9	PO10	POII	PO12	PSO1	PSO2	PSO3
C214	3	3	2	2	-	2	-	2		2		2	3	1	1
Attainment	3	3	2	2		2		2	-	2		2	3	1	1

Comments by Program	1.
Coordinator	2.
Remarks by HoD	

Name and Signature of the Faculty Member

(Mars. P. BOWRNILA)

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SRI BHARATHI ENGINEERING

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS 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) -Foundational Electronics & PCB Designing	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 Right (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 Programme - 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)- Industrial Engineering.	PO1,PO2,PO3,PO4, PSO1,PSO2,PSO3

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PUDUKKOTTAL - 622 202

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