

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



(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)

2021-2022

ATTAINMENT EVALUATION OF POS & COS

ELECTRONICS AND COMMUNICATION ENGINEERING

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING Academic Year (2021 - 2022) PO-PSO ATTAINMENT

PO/PSO	STATEMENT	TARGET	ATTAINED VALUE	ATTAINMENT %
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	2.85	2.44	85.31
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	2.39	2.02	84.80
PO3	Design/development of solutions: 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.	1.98	1.65	83.18
PO4	Conduct investigations of complex problems: 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.	1.63	1.36	83.89
PO5	Modern tool usage: 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.	1.62	1.41	86.93
PO6	The engineer and society: 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.	1.63	1.46	89.65 THILAGAVATHI PRINCIPAL

M.E., Ph.D.,

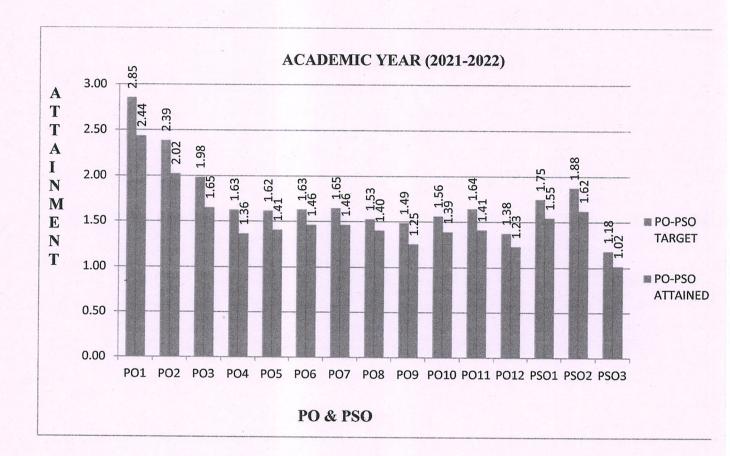
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PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	1.65	1.46	88.81
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.53	1.40	91.90
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.49	1.25	84.37
PO10	Communication: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.	1.56	1.39	88.87
PO11	Project management and finance: Demonstrate knowledge and understanding 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.	1.64	1.41	85.83
PO12	Life-long learning: 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.	1.38	1.23	89.47
PSO1	Design, develop and analyze electronic systems through application of relevant electronics, mathematics and engineering principles	1.75	1.55	88.29
PSO2	Design, develop and analyze communication systems through application of fundamentals from communication principles, signal processing, and RF System Design & Electromagnetics.	1.88	1.62	86.49
PSO3	Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems	1.18	1.02	86.27

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

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

ECE DEPARTMENT ACADEMIC YEAR 2021-2022 CO-PO-PSO ATTAINMENT



HoD/ECE HOD / ECE

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

Dr. S.THILAGAVATHAV.E., Ph.D.,
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Kaikkurchi - 622 303, Pudukkottai Dt.



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Department of Electronics and communication Engineering

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

										t -Att	ainme	ent of	Cour	se Ou	tcom	es (Th	rougi	h Dire	ect As	sessn	ient)											
		,		ACAD	EMIC	YEA	R - 202	21 - 20	22					¥.									BA	тсн					2020 -	2024		
COU	RSE CODE/TITLE	EC8453-Linear Integrated Circu	uits																		COURSE OUTCOME					1	2	3	4	5	6	
YE	AR/SEMESTER	II / IV		TARGET(%) 65 65 65 65 65									65																			
C	COURSE	Mrs.Nithya Poorani.V																				TO	TAL S	TREN	стн				10			1
		Level													-			R	ange							-						
		1													HP T	0 60%	of the				ore tha			-								
ATTA	AINMENT LEVEL	2									-			-							re than					i						
		3		1										80							more t				-		-					
									T					00	70 00	ABOV	E OI LI	ne stu	ients	scorea	_											
		*	, IA	T 1 - N	IARK	SALL	OTEI)	L	AT 2 -	MAR	KS AL	LOT	ED	L	AT 3 -	MAR	KS AI	LOT	ED	Assig	gnmen		i Projec ninar	t /Tute	orial /	TOTAL COURSE GUTCOME					
S.NO	REG NO	NAME OF THE STUDENT	C1	C2	СЗ	C4	C5	C6	CI	C2	С3	C4	C5	C6	Cl	C2	СЗ	C4	C5	C6	CI	C2	СЗ	C4	C5	C6	CI	C2	СЗ	C4	C5	C6
			60	40							40	60							60	40		10	10			10	60	50	50	60	60	50
1	912620106001	ABIRAMI S	58	39			1				38.8	58.2						-	58.2	38.8		8	9.0			8	58.2	46.8	47.8	58.2	58.2	46.8
2	912620106002	ANUSHYA M	43	29							30	45							48	32		8	8.0			7	43.2	36.8	38	45	48	39
3	912620106003	ARTHI S	44	29		٠.				,	29.6	44.4							46.2	30.8		9	8.0			8	43.8	38.2	37.6	44.4	46.2	38.8
4	912620106004	JEYASRI K	46	31							32	48	J. e						55.8	37.2		7	8.0			8	46.2	37.8	40	48	55.8	45.2
5	912620106006	SENPAGAHARINI V	46	31							34.4	51.6							55.2	36.8		8	8.0			9	46.2	38.8	42.4	51.6	55.2	45.8
6	912620106007	SONIYA P	43	28							31.2	46.8				-			58.2	38.8		8	7.0			9	42.6	36.4	38.2	46.8	58.2	47.8
7	912620106301	ABITHA S	46	31							28	42							43.8	29.2		8	8.0			9	46.2	38.8	36	42.	43.8	38.2
8	912620106302	DESIKA G	43	29							28.4	42.6							45.6	30.4		9	8.0			9	43.2	37.8	36.4	42.6	45.6	39.4
9	912620106303	SABAREESWARI S	44	30		1					28.4	42.6							45	30		9	8.0		5.5	9	44.4	38.6	36.4	42.6	45	39
10	912620106304	SUBBULAKSHMI P	43	28							28	42						- 7	43:2	28.8		8	8.0			8	42.6	36.4	36	42	43.2	36.8
						7								Targe	Value							39.0	32.5	32.5	39.0	39.0	32.5					
		Course Outcomes Vs A	ttainmen	t Level											1 6	No. of	Studen	ts sco	ed abo	ve CO	's Targ	et Valu	ие				10	10	10	10	10	10
7 2 5	1															Perc	entage		Attair		above	arget					100.0	100.0	100.0	100.0	100.0	100.0
3.5 Fee	3 .	3 3		3		3			3			13/1-9				CC	attain				t the G	raph					3	3	3	3	3	3

Course Outcomes Vs Attainment Level

3.5
3
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6
Course Outcomes (C1, C2, C3, C4, C5 & C6)

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HOD / ECE SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKI IRICHI



SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN **DEPARTMENT OF ECE**

COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION ACADEMIC YEAR: 2021 - 2022 (EVEN SEM)

YEAR / SEMESTER : II YEAR / IV SEMESTER

Batch:2020-2024

SUBJECT: EC8453-Linear Integrated Circuits

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

TOTAL STRENGTH:

10

S.NO	Register No	NAME	Univ. Grade	
1	912620106001	ABIRAMI S	B+	
2	912620106002	ANUSHYA M	U	
3	912620106003	ARTHI S	U	
4	912620106004	JEYASRI K	B+	
5	912620106006	SENPAGAHARINI V	В	
6	912620106007	SONIYA P	В	
7	912620106301	ABITHA S	U	
8	912620106302	DESIKA G	U	
9	912620106303	SABAREESWARI S	U	
10	912620106304	SUBBULAKSHMI P	U	
	No	of O Grade	0	0
	No.	of A+ Grade	0	0
	No.	of A Grade	0	0
	No.	of B+ Grade	2	2
	No	of B Grade	2	2
	No.	of U Grade	6	6
	No.	0	0	
arget for	course outcome Attai	60	10	
o of stude	ents above the target	4		
O-Attain	ment University (40.00		

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PUDUKKOTTAI - 622 303

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	40.00	52.0	l'
C214.2	100.0	40.00	52.0	1
C214.3	100.0	40.00	52.0	1
C214.4	100.0	40.00	52.0	1
C214.5	100.0	40.00	52.0	1 /
C214.6	100.0	40.00	52.0	1

Expected CO-PO Level

Course	POI	PO2	PO3	PO4	P05	P06	PO7	PO8	PO9	PO10	POH	PO12	PSO1	PSO2	PSO3
C214.1	. 3	2	2	2	2	-	-	-	2	2		1	1	2	-
C214.2	3	2	2	2	2	- \		-	2	2	-	1	1	2	
C214.3	3	2	2	2	2	-	-	-	2	2		- 1	1	2	
C214.4	3	2	-2	2	2			-	2	2	-	1	1	- 2	
C214.5	3	2	2	2 *	2	-			2	2	-	1	1	2	1
C214.6	3	2	2	2	2		-	-	2	2	-	I	1	2	-
C214	3	2	2	2	2		-	-	2	2	-	1	1	2	1

				PO Attainment Leve	1										
Course	POI	PO2	PO3	PO4	P05	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C214.1	1	0.67	0.67	0.67	0.67	-	-	3 - 1 - 1	0.67	0.67	-	0.33	0.33	0.67	
C214.2	1	0.67	0.67	0.67	0.67	-		-	0.67	0.67	- ·	0.33	0.33	0.67	0.33
C214.3	1	0.67	0.67	0.67	0.67	-	-	-	0.67	0.67		0.33	0.33	0.67	-
C214.4	1	0.67	0.67	0.67	0.67	-	-	-	0.67	0.67	-	0.33	0.33	0.67	-
C214.5	1	0.67	0.67	0.67	0.67	-	-	-	0.67	0.67		0.33	0.33	0.67	0.33
C214.6	1	0.67	0.67	0.67	0.67	-			0.67	0.67	-	0.33	0.33	0.67	-
C214	1	0.67	0.67	0.67	0.67				0.67	0.67	 	0.22	0.22	0.67	0.22

Course Code	POI	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO2
C214	3	2	2	2	2	-	- 1	- 10-	2	2	- 1	. 1	1 .	2	1
Attainm ent	1	0.67	0.67	0.67	0.67		-		0.67	0.67	-	0.33	0.33	0.67	0.33

Comments	ſ.	
by Program Coordinator	2.	
Remarks by		

Name and Signature of the Faculty Member Dr. S.THILAGAVATHI M.S., Ph.D., PRINCIPAL

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION 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 and PSOs
	Value Added Course (VAC) - "Real-	PO1,PO2,PO3,PO4,PO5,PO10,PO9,PO12,
1	time Sensor Data Processing with	PSO1,PSO2,PSO3
	Python for IoT Applications"	
	Entrepreneurship Development Cell	PO6,PO7,PO8,PO11
2	(EDC) – The Rise of Women-led E-	
	commerce ventures	
	Intellectual Property Rights (IPR) –	PO6,PO7,PO8,PO11
3	Patents, Copyright and trademarks: A	
	Comprehensive guide to IPR Protection	
	Language and Communication	PO9,PO10
4	Technology(LCT) - Modern Trends in	
	English	
5	Soft Skill Program-Critical Thinking	PO10
6 .	Life Skill Program-Meditation	PO8
7 .	Information Communication	PO5, PO12
	Technology(ICT) tools – Hands-on	
	Training on Web Testing Tools	
. 8	Research Methodology(RM) -	PO1,PO2,PO3,PO4, PSO1,PSO2,PSO3
	Research Guidances in Embedded	
	Systems and its Applications	

HOD/ECE

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