



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

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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)

2019-2020

ATTAINMENT EVALUATION OF POs & COs ELECTRONICS AND COMMUNICATION ENGINEERING

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KAIKKURICHI, PUDUKKOTTAI-622-303

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Academic Year (2019 - 2020)
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.	2.88	2.34	81.24
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	2.22	1.78	80.38
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.	1.77	1.45	81.95
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.	1.53	1.25	81.39
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.	1.64	1.32	80.61
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.	1.71	1.53	89.39

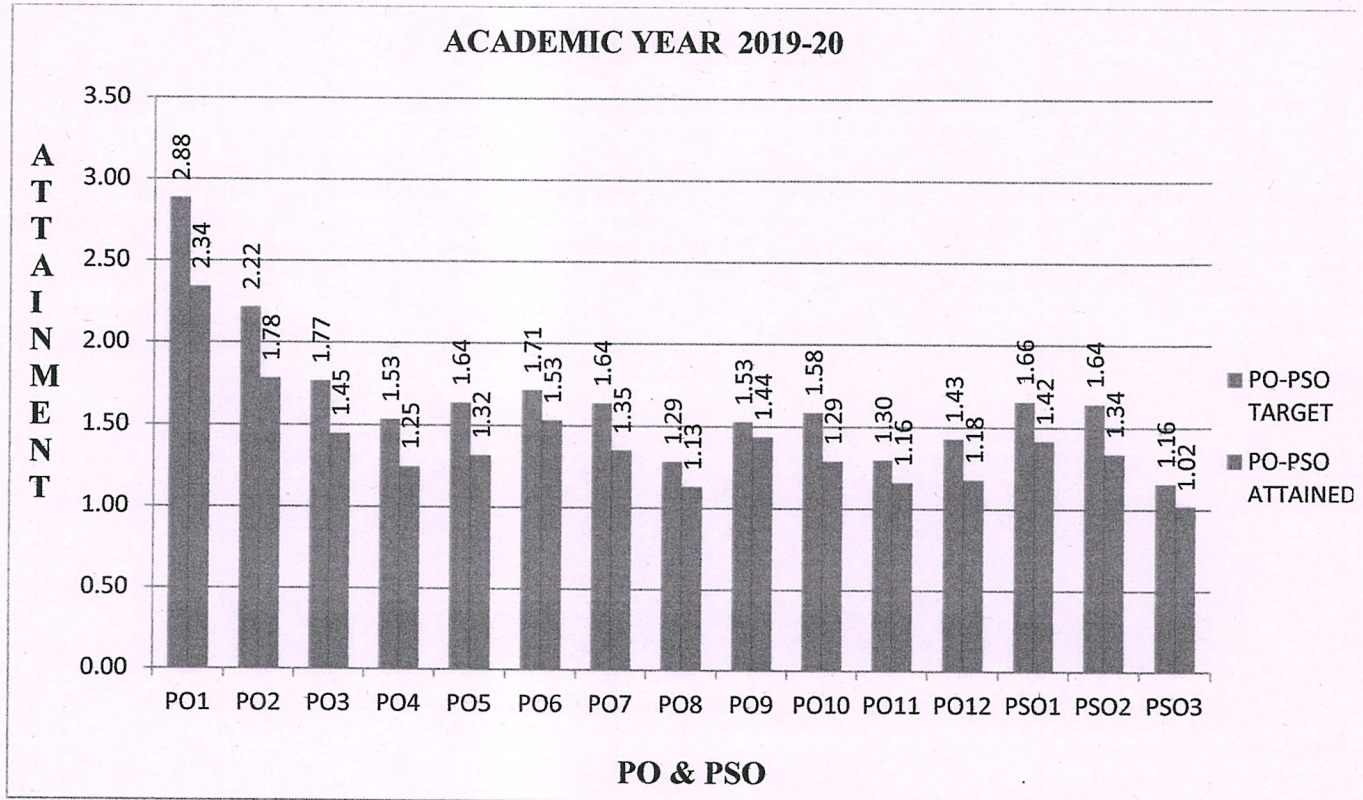
Dr. S. THILAGAVATHI M.E., Ph.D.
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**SRI BHARATHI ENGINEERING
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Kaikkurichi - 622 303, Pudukkottai Dt.

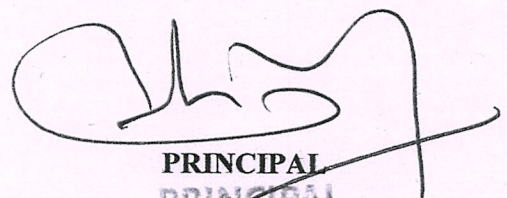
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	1.64	1.35	82.60
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.29	1.13	88.20
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.53	1.44	94.09
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.	1.58	1.29	81.46
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.	1.30	1.16	89.53
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.	1.43	1.18	82.73
PSO1	Design, develop and analyze electronic systems through application of relevant electronics, mathematics and engineering principles	1.66	1.42	85.59
PSO2	Design, develop and analyze communication systems through application of fundamentals from communication principles, signal processing, and RF System Design & Electromagnetics.	1.64	1.34	81.56
PSO3	Adapt to emerging electronics and communication technologies and develop innovative solutions for existing and newer problems	1.16	1.02	88.11


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**ECE DEPARTMENT
ACADEMIC YEAR 2019-2020
CO-PO-PSO ATTAINMENT**




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 PUDUKKOTTAI DISTRICT

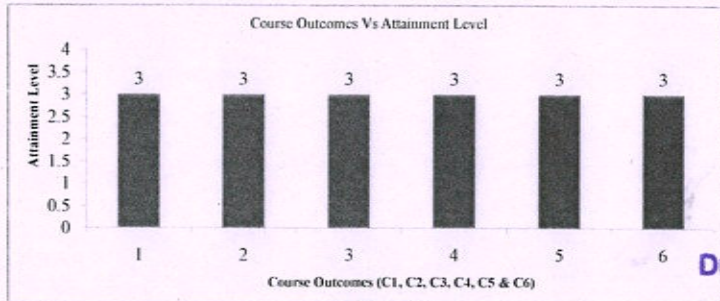

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Department of Electronics and communication Engineering
 Internal Assessment -Attainment of Course Outcomes (Through Direct Assessment)

ACADEMIC YEAR - 2019 - 20		BATCH		2017 - 2021																																							
COURSE CODE/TITLE	EC8553-Discrete Time Signal Processing	COURSE OUTCOME						1	2	3	4	5	6																														
YEAR/SEMESTER	III/V	TARGET(%)						65	65	65	65	65	65																														
COURSE COORDINATOR	Mr.S.UDAYANAN	TOTAL STRENGTH						18																																			
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	912617106001	ABIRAMI S	57	38							40	60											60	40							10	10					10	60	50	50	60	60	50
2	912617106002	ABISHEKA S	46	31							28	41											45	30											8	46	41	37	41	45	38		
3	912617106003	ATSHAYA R	43	29							32	47											47	31										9	43	37	41	47	47	40			
4	912617106004	BAVADHARANI A	51	34							33	49											50	33										9	51	43	41	49	50	42			
5	912617106005	BHUVANESHWARI B	48	32							28	41											45	30										10	48	42	36	41	45	40			
6	912617106006	DHIVYA L	54	36							36	54											48	32										9	54	46	44	54	48	41			
7	912617106007	GOWSALYA D	49	33							30	45											55	37										8	49	42	40	45	55	45			
8	912617106009	INDHUMATHI S	45	30							29	44											46	31										10	45	39	38	44	46	41			
9	912617106010	KANIMOZHI D	48	32							32	48											48	32										9	48	42	40	48	48	41			
10	912617106011	KAVYA C	54	36							37	56											56	38										8	54	45	47	56	56	46			
11	912617106012	KEERTHANA G	42	28							28	42											47	31										9	42	36	38	42	47	40			
12	912617106013	MAHESHWARI G	53	36							28	42											45	30										9	53	46	37	42	45	39			
13	912617106014	MANOHARI M	42	28							30	44											47	31										10	42	37	38	44	47	41			
14	912617106015	MARAGATHALAKSHMI S	46	31							28	42											46	30										10	46	41	37	42	46	40			
15	912617106017	SAFRIN NISHA S	42	28							30	46											56	37										10	42	37	40	46	56	47			
16	912617106018	SUBASHINI M	48	32							28	41											46	30										9	48	41	37	41	46	39			
17	912617106019	SUBASHINI T	46	31							38	58											52	35										10	46	40	46	58	52	45			
18	912617106020	VINTHYA R	47	31							40	60											59	39										8	47	39	50	60	59	47			
							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						18	18	18	18	18	18																									
							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																									



SP
Faculty Incharge

SP

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

YEAR/SEM: III/V


Batch:2017-2021

SUBJECT : EC8553-Discrete Time Signal Processing

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

TOTAL STRENGTH : 18

S.NO	Register No	NAME	Univ. Grade	
1	912617106001	ABIRAMI S	A	
2	912617106002	ABISHEKA S	B	
3	912617106003	ATSHAYA R	B+	
4	912617106004	BAVADHARANI A	B+	
5	912617106005	BHUVANESHWARI B	U	
6	912617106006	DHIVYA L	U	
7	912617106007	GOWSALYA D	B	
8	912617106009	INDHUMATHI S	U	
9	912617106010	KANIMOZHI D	B+	
10	912617106011	KAVYA C	B+	
11	912617106012	KEERTHANA G	U	
12	912617106013	MAHESHWARI G	U	
13	912617106014	MANOHARI M	B	
14	912617106015	MARAGATHALAKSHMI S	B	
15	912617106017	SAFRIN NISHA S	B	
16	912617106018	SUBASHINI M	U	
17	912617106019	SUBASHINI T	A	
18	912617106020	VINTHIYA R	B+	
No. of O Grade			0	0
No. of A+ Grade			0	0
No. of A Grade			2	2
No. of B+ Grade			5	5
No. of B Grade			0	0
No. of U Grade			6	6
No. of UA Grade			0	0
Target for course outcome Attainment			60	10
No of students above the target			7	
CO-Attainment University (%)			38.89	


Faculty


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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
C302.1	100.0	38.89	51.1	1
C302.2	100.0	38.89	51.1	1
C302.3	100.0	38.89	51.1	1
C302.4	100.0	38.89	51.1	1
C302.5	100.0	38.89	51.1	1
C302.6	100.0	38.89	51.1	1

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-
C302.2	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-
C302.3	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-
C302.4	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-
C302.5	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-
C302.6	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-
C302	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-


PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302.1	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.67	0.33	-
C302.2	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.67	0.33	-
C302.3	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.67	0.33	-
C302.4	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.67	0.33	-
C302.5	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.67	0.33	-
C302.6	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.67	0.33	-
C302	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.73	0.33	-

Attainment of POs and PSOs

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C302	3	3	2	1	1	-	-	-	1	1	-	1	2	1	-
Attainment	1	1	0.67	0.33	0.33	-	-	-	0.33	0.33	-	0.33	0.73	0.33	-

Comments by Program Coordinator	1. 2.
Remarks by HoD	

 [S. UDHAYANAND, AP/EECE]

Name and Signature
of the Faculty Member


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION 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 and PSOs
1	Value Added Course(VAC) - “Emerging Technologies of Bio Signal Processing in VLSI”	PO1,PO2,PO3,PO4,PO5,PO10,PO9,PO12, PSO1,PSO2,PSO3
2	Entrepreneurship Development Cell (EDC)–Women in Manufacturing :Breaking Stereotypes, Building Success	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) - Deep Learning and its Applications	PO1,PO2,PO3,PO4, PSO1,PSO2,PSO3


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