



# 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](http://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



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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**

### **ELECTRICAL AND ELECTRONICS**

### **ENGINEERING**

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KAIKKURICHI, PUDUKKOTTAI-622-303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Academic year (2019 - 2020)

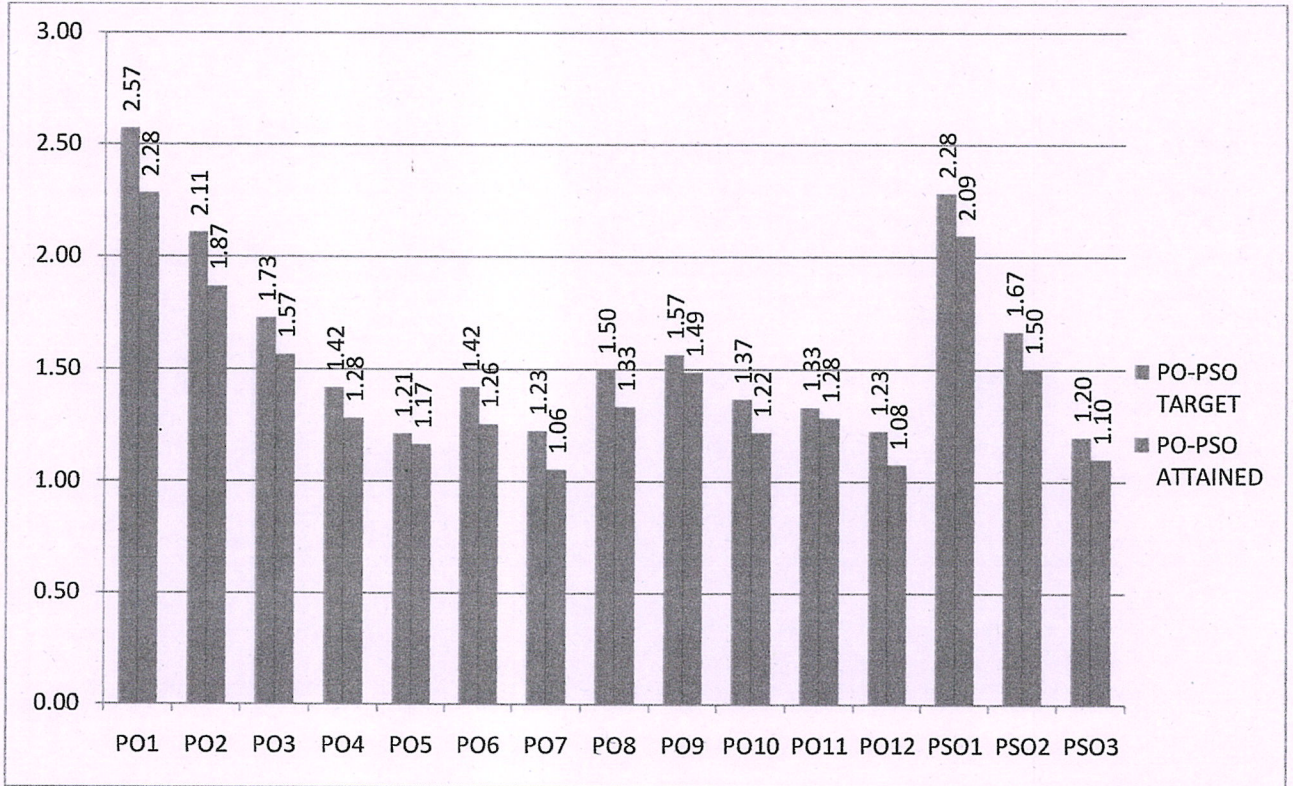
## PO-PSO ATTAINMENT

PO/PSO	STATEMENT	TARGET	ATTAINED VALUE	ATTAINMENT %
PO1	Apply knowledge of mathematics, basic science and engineering science	2.57	2.28	88.74
PO2	Identify, formulate and solve engineering problems.	2.11	1.87	88.65
PO3	Design an electrical system or process to improve its performance, satisfying its constraints	1.73	1.57	90.67
PO4	Conduct experiments in electrical and electronics systems and interpret the data	1.42	1.28	90.47
PO5	Apply various tools and techniques to improve the efficiency of the system	1.21	1.17	96.09
PO6	Conduct themselves to uphold the professional and social obligations	1.42	1.26	88.56
PO7	Design the system with environment consciousness and sustainable development	1.23	1.06	86.04
PO8	Interacting industry, business and society in a professional and ethical manner	1.50	1.33	88.92
PO9	Function in a multidisciplinary team.	1.57	1.49	95.08
PO10	Proficiency in oral and written Communication	1.37	1.22	89.32
PO11	Implement cost effective and improved system	1.33	1.28	96.33
PO12	Continue professional development and learning as a life-long activity.	1.23	1.08	87.71
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.	2.28	2.09	91.73
PSO2	Ability to apply mathematical methodologies to solve problems related with electrical engineering using appropriate engineering tools and algorithms.	1.67	1.50	90.09
PSO3	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.	1.20	1.10	91.71

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

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

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



**HOD/EEE**  
**HOD EEE**

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**PUDUKKOTTAI - 622 303.**

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**PUDUKKOTTAI DISTRICT**

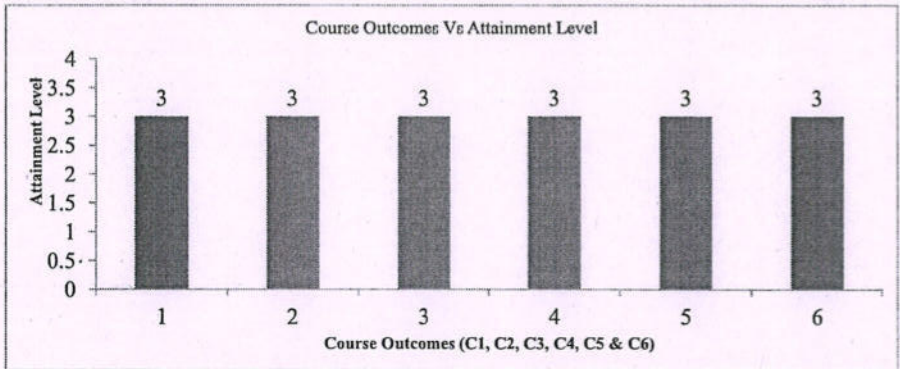
**Dr. S.THILAGAVATHI M.E.,Ph.D.,**  
**PRINCIPAL**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
**Kaikkurchi - 622 303, Pudukkottai Dt.**



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

ACADEMIC YEAR - 2019 - 2020																		BATCH						2018 - 2022								
COURSE CODE/TITLE		EE8351 / DIGITAL LOGIC CIRCUITS																COURSE OUTCOME														
YEAR/SEM		II/III																TARGET(%)														
COURSE COORDINATOR		RAGADHARSHINI.R																TOTAL STRENGTH														
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							40	60							60	40	10	10			10	60	50	50	60	60	50	
1	912618105001	AARTHI G	51	34						34	51					55	36	7	8			8	51	41	42	51	55	44				
2	912618105002	AASHA R	52	35						36	53					57	38	9	8			7	52	44	44	53	57	45				
3	912618105003	AGARI S	51	34						34	52					56	38	8	8			8	51	42	42	52	56	46				
4	912618105004	JEEVITHA R	55	37						37	56					57	38	9	7			8	55	46	44	56	57	46				
5	912618105005	NISHA K	53	36						37	55					56	38	9	9			9	53	45	46	55	56	47				
6	912618105006	RAMANA R	51	34						36	54					55	37	9	8			9	51	43	44	54	55	46				
7	912618105007	SNEHA S	48	32						34	51					54	36	9	7			9	48	41	41	51	54	45				
8	912618105301	VINOTHINI V	48	32						33	50					54	36	8	9			9	48	40	42	50	54	45				



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	8	8	8	8	8	8
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

*R. R. Pillai*  
 Faculty Incharge

*(Signature)*  
**Dr. S. THILAGAVATHI M.E., Ph.D.**  
 PRINCIPAL  
 SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
 Kaikkuruchi - 622 303, Pudukkottai Dt.

**HOD EEE**  
*(Signature)*  
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DEPARTMENT OF EEE

**COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION**  
ACADEMIC YEAR : 2019 - 2020 (ODD SEM)

YEAR/SEM : II/III

Batch: 2018-2022


SUBJECT : EE8351 - DIGITAL LOGIC CIRCUITS

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

TOTAL STRENGTH : 8

S.NO	Register No	NAME	Univ. Grade
1	912618105001	AARTHI G	B
2	912618105002	AASHA R	B
3	912618105003	AGARI S	B
4	912618105004	JEEVITHA R	B
5	912618105005	NISHA K	B+
6	912618105006	RAMANA R	B
7	912618105007	SNEHA S	U
8	912618105301	VINOTHINI V	U

No. of O Grade	0	0
No. of A+ Grade	0	0
No. of A Grade	0	0
No. of B+ Grade	1	1
No. of B Grade	5	5
No. of U Grade	2	2
No. of UA Grade	0	0
Target for course outcome Attainment	60	8
No of students above the target	6	
CO-Attainment University (%)	75.00	

  
Faculty Incharge

  
HOD/EEE

  
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Overall Attainment Sheet – COs - POs & PSDs 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
C202.1	100.0	75.00	80.0	3
C202.2	100.0	75.00	80.0	3
C202.3	100.0	75.00	80.0	3
C202.4	100.0	75.00	80.0	3
C202.5	100.0	75.00	80.0	3
C202.6	100.0	75.00	80.0	3

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C202.1	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.2	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.3	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.4	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.5	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.6	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202	2	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
C202.1	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.2	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.3	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.4	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.5	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202.6	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
C202	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1

Attainment of POs and PSDs:

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C202	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1
Attainment	2	2	1	1	1	-	-	-	-	1	-	1	2	-	1

Comments by Program Coordinator	1. 2.
Remarks by HoD	

R. R. H. L.  
Name and Signature  
of the Faculty Member  
[R. RAGADHARSHINI]

  
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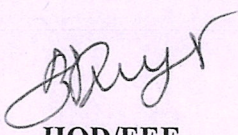
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### ACTION TAKEN REPORT FOR CO- PO-PSO ATTAINMENT

#### 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.	<b>Value Added Course (VAC)</b> -Energy consumption modeling in electric vehicles	PO1,PO2,PO3,PO4,PO5,PO9,PO10,PO12, PSO1,PSO2,PSO3
2.	<b>Entrepreneurship &amp; Development Cell (EDC)</b> - Strategies for Overcoming Gender Bias in Tech Entrepreneurship.	PO6,PO7, PO8, PO11
3.	<b>Intellectual Property Right(IPR)</b> - International Perspective on IPR.	PO6,PO7, PO8, PO11
4.	<b>Language and Communication Technology (LCT)</b> - Mastering the arts of communication.	PO9, PO10
5.	<b>Soft Skill Program</b> - Mastering in multitasking	PO10
6.	<b>Life Skill Program</b> - The use of hand sanitizer and face mask.	PO8
7.	<b>Information Communication Technology (ICT)</b> tools- PHP and MYSQL : Database connectivity and data manipulation	PO5 ,PO12
8.	<b>Research Methodology(RM)</b> -Workshop on Emerging Trends in Power Generation and Electrical Safety	PO1,PO2,PO3,PO4, PSO1,PSO2,PSO3

  
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