



BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN
DEVIYAKURICHI- 636 112, SALEM.

2.6.2 ATTAINMENT EVALUATION OF
POs &COS
ACADEMIC YEAR 2020-2021

Index
Criterion 2.6.2

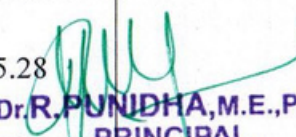
Course Outcome-Program Outcome-Program Specific Outcome
(CO-PO-PSO) Attainment Evaluation

ACADEMIC YEAR	DEPARTMENTS	PAGE NUMBER
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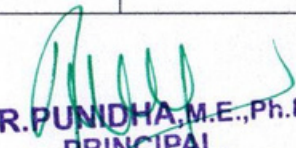


BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN
DEVIYAKURICHI-636112, SALEM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2020-2021

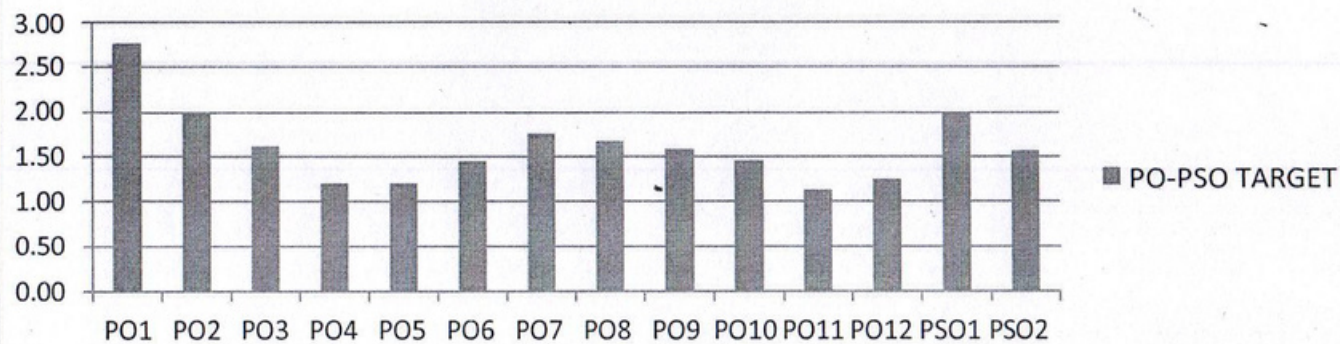
PO/PSO	Statement	Target	Attained value	Attainment %
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.	2.76	2.25	81.52
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	1.99	1.63	81.91
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	1.62	1.35	83.33
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	1.20	0.96	80.00
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.	1.20	0.93	77.50
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.	1.44	0.94	65.28


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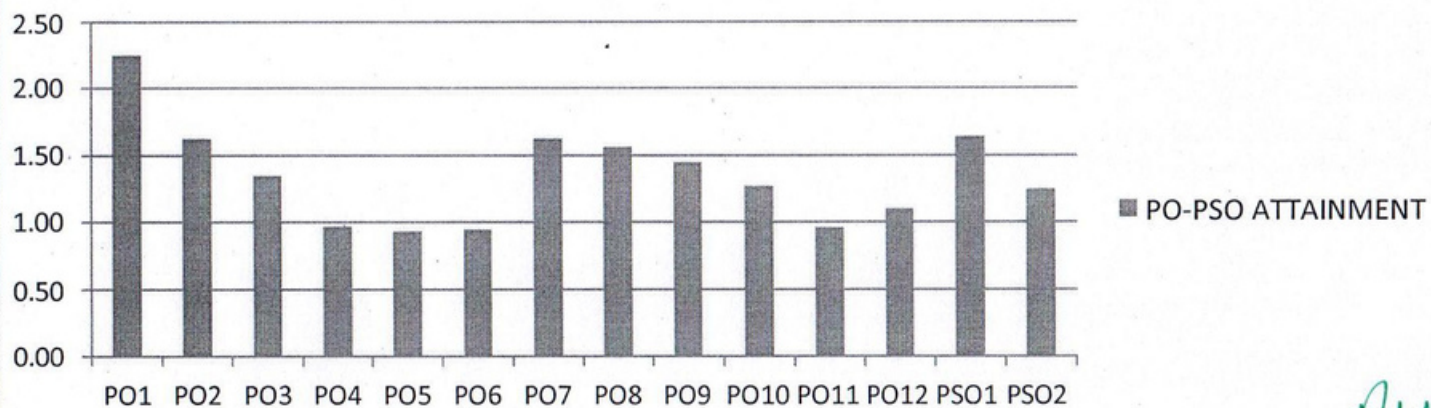
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	1.75	1.63	93.14
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.67	1.56	93.41
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.58	1.45	91.77
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.	1.45	1.27	87.59
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	1.13	0.96	84.96
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.	1.24	1.10	88.71
PSO1	To analyze, design and develop computing solutions by applying foundational concepts of Computer Science and Engineering.	2	1.64	82.00
PSO2	To apply software engineering principles and practices for developing quality software for Scientific and business applications.	1.56	1.25	80.13


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**DEPARTMENT OF CSE
ACADEMIC YEAR 2020-2021
CO-PO-PSO TARGET**



**DEPARTMENT OF CSE
ACADEMIC YEAR 2020-2021
CO-PO-PSO ATTAINMENT**



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BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN
DEVIYAKURICHI-636112,SALEM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2020-2021

Department Assessment and Evaluation Committee (DAEC) and Department Assessment and Evaluation Committee (DAEC) had analyzed the CO-PO-PSO attainment of the each department. The Course outcomes of each subject were collected and Program Outcome Attainment and Program Specific Outcome attainment was evaluated for each Course Outcome.

The action taken summary was followed as,

- 1) The Course attainment percentage of the all Program Outcome and Program Specific Outcomes except PO6 were obtained the percentage of 70 and above. So the target value is achieved.

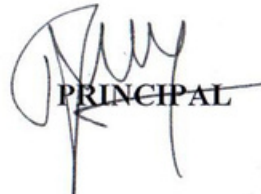
Action taken:


- Conduct more training programs to the students.
- More sessions of soft-skill training and software course training were arranged to the students.
- Motivated to attend Implant trainings and internships for improve their skills.

- 2) The Course attainment percentage of the following Program Outcome (PO6) were obtained the percentage of below 70. So The target value is not achieved

Action taken:

- Assignment given to slow learners and Counseling was arranged for the slow learners.
- Coaching classes were arranged to the students.


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BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN
DEVIYAKURICHI-636112, SALEM
DEPARTMENT OF CIVIL ENGINEERING
CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2020-2021

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.	2.92	2.22	76.03
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	2.67	2.09	78.28
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.	2.5	2.26	90.40
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.	2.25	1.86	82.67
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	1.91	1.28	67.02
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	2.04	1.82	89.22

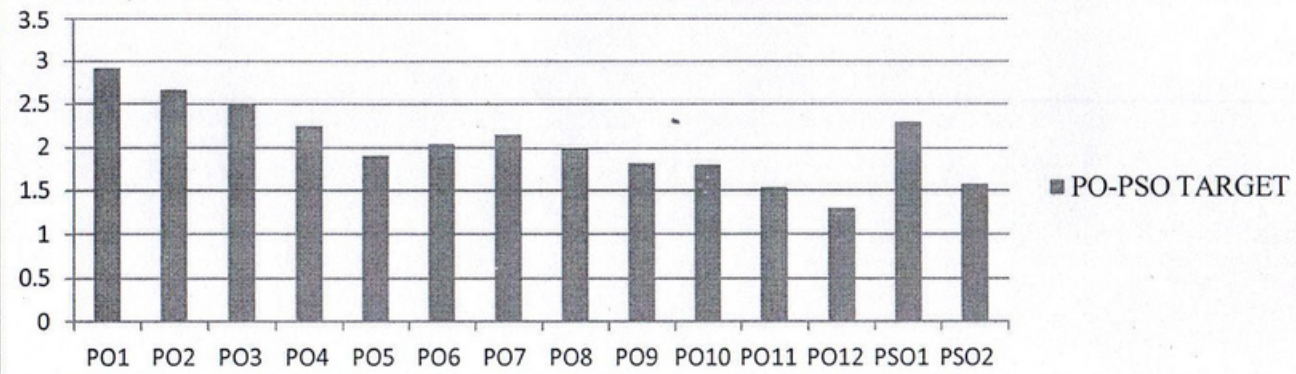

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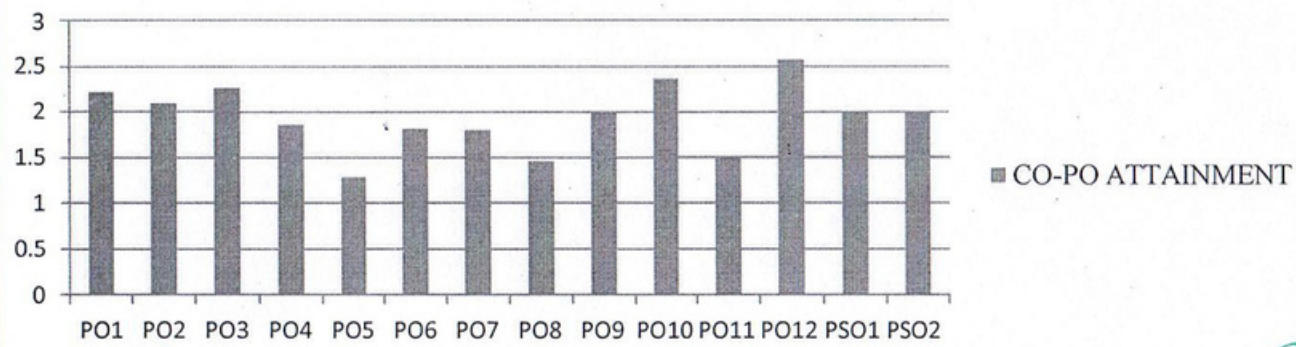
	relevant to the professional engineering practice			
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	2.15	1.8	83.72
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.98	1.46	73.74
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.99	1.82	91.46
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	2.3	1.9	82.61
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	1.53	1.51	98.69
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.	1.3	2.57	76.26
PSO1	To apply the engineering fundamentals to an analyze and design the various structural components.	2.29	2	87.34
PSO2	Able to cater to the changing industrial needs and capable of developing green concepts for different applications.	2.01	1.91	95.02


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**DEPARTMENT OF CIVIL
ACADEMIC YEAR 2020-2021
CO-PO-PSO TARGET**



**DEPARTMENT OF CIVIL
ACADEMIC YEAR 2020-2021
CO-PO-PSO ATTAINMENT**



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BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN
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DEPARTMENT OF CIVIL ENGINEERING
ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2020-2021

Department Assessment and Evaluation Committee (DAEC) and Department Assessment and Evaluation Committee (DAEC) had analyzed the CO-PO-PSO attainment of the each department. The Course outcomes of each subject were collected and Program Outcome Attainment and Program Specific Outcome attainment was evaluated for each Course Outcome.

The action taken summary was followed as,

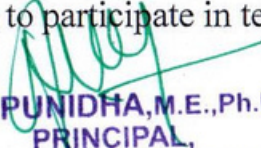
- 1) The Course attainment percentage of the all Program Outcome and Program Specific Outcomes except PO7 were obtained the percentage of 70 and above. So the target value is achieved.

Action taken:

- Conduct more training programs to the students.
 - More sessions of soft-skill training and software course training were arranged to the students.
 - Motivated to attend Implant trainings and internships for improve their skills.
- 2) The Course attainment percentage of the following Program Outcome (PO7) were obtained the percentage of below 70. So The target value is not achieved

Action taken:

- Special lecture on Environment issues is proposed to conduct and students can be given case studies to understand better in applying the environmental concepts to protect natural resources.
- Students will be encouraged to participate in technical contest.


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2020-2021

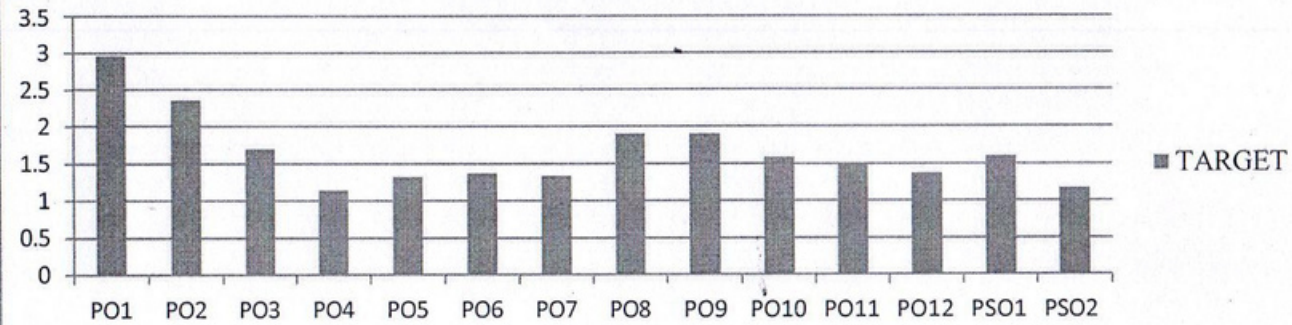
PO/PSO	Statement	Target	Attained value	Attainment %
PO1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.	2.97	2.97	100
PO2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	2.37	2.37	100
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	1.7	1.7	100
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	1.13	1.13	100
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.	1.32	1.32	100
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.	1.36	1.36	100


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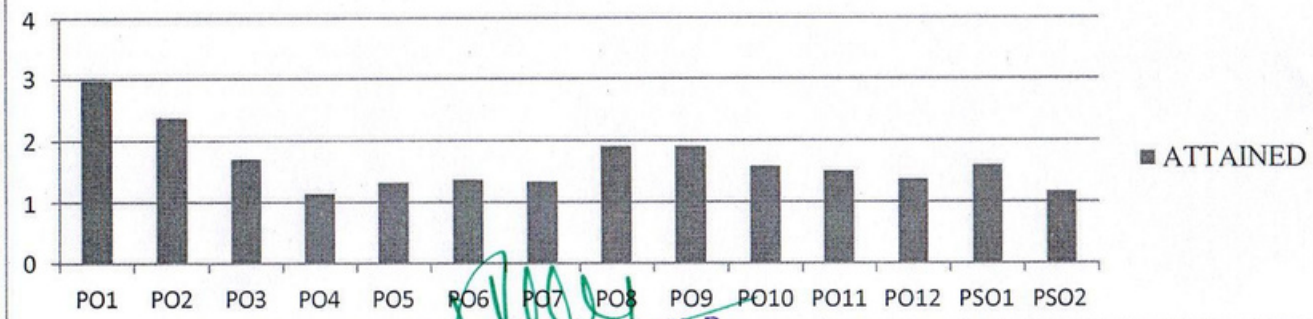
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	1.33	1.33	100
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.91	1.91	100
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.91	1.91	100
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	1.58	100
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	1.5	1.5	100
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.	1.36	1.36	100
PSO1	Apply the principles of advanced communication systems, IoT based embedded systems, Advanced Signal & Image Processing, modern Semiconductor Technologies to develop digital forums.	1.6	1.6	100
PSO2	Develop their individual identities to adapt, understand and resolve the problems associated with wireless communication network as an individual or in a team with responsible view towards the society and environment.	1.16	1.16	100


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**Department of ECE
AY 2020 - 2021
CO-PO-PSO TARGET**



**Department of ECE
AY 2020 - 2021
CO-PO-PSO ATTAINED**



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2020-2021


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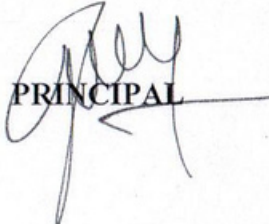
The action taken summary was followed as,

The Course attainment percentage of the all Program Outcome and Program Specific Outcomes were obtained the 100 percentage. So the target value is achieved.

Action taken:

NIL

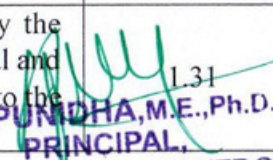

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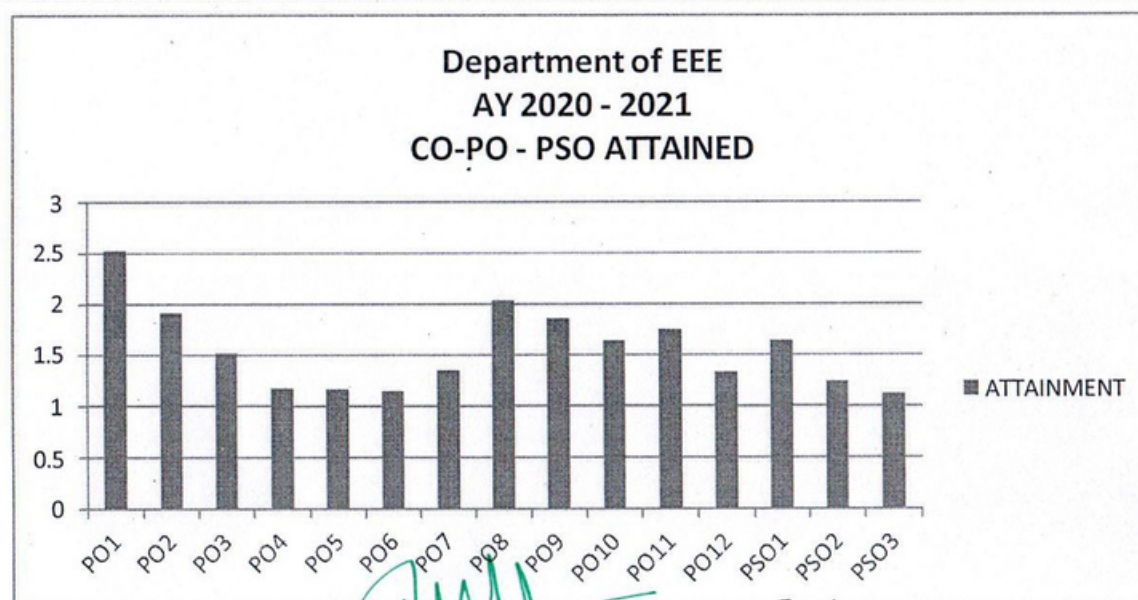
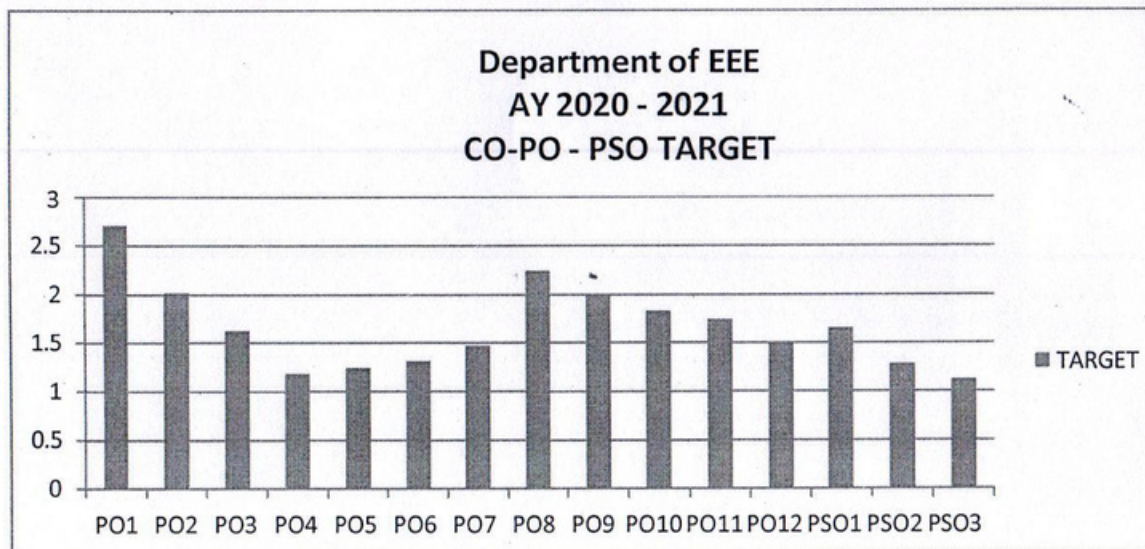
BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
CO-PO-PSO ATTAINMENT
ACADEMIC YEAR 2020-2021

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.	2.71	2.52	93
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	2.02	1.91	94.6
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	1.63	1.52	93.3
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	1.19	1.18	99.2
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.	1.25	1.17	93.6
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.	1.31	1.15	87.8


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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.	1.47	1.35	91.8
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	2.25	2.03	90.2
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	2	1.86	93
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.	1.83	1.64	89.6
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	1.75	1.75	100
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.	1.5	1.33	88.7
PSO1	Apply knowledge of mathematics, engineering sciences and multidisciplinary knowledge to the solution of electrical and electronics engineering problems.	1.66	1.64	98.8
PSO2	Ability to apply technological developments in field of Electrical & Electronics Engineering in Societal and environmental Context and Communicate effectively both individually and in multidisciplinary teams.	1.28	1.24	96.9
PSO3	Contribute for the development of smart power grid and integrating green energy on it to meet the increasing demand of the society.	1.13	1.12	99.1


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING.
ACTION TAKEN REPORT FOR CO-PO-PSO ATTAINMENT
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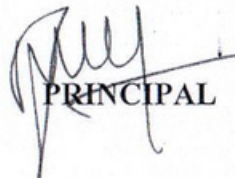
The action taken summary was followed as,

The Course attainment percentage of the all Program Outcome and Program Specific Outcomes were obtained above 90 percentage. So the target value is achieved.

Action taken:

NIL


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BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN, DEVIYAKURICHI

Department of Computer Science And Engineering

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

ACADEMIC YEAR - 2020- 2021																	BATCH						2018 - 2022									
COURSE CODE/TITLE		CS8601 (C312) / MOBILE COMPUTING															COURSE OUTCOME						1	2	3	4	5	6				
CLASS/SECTION		III CSE															TARGET(%)						60	60	60	60	60	60				
COURSE COORDINATOR		Mrs.V.Ragavi,AP/ CSE															TOTAL STRENGTH						50									
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							40	30	30	10		10			10	70	40	70	80	30
1	620318104001	ABARNA L	53	36							56	38						36	27	27	8		8			9	61	36	64	73	27	36
2	620318104002	ABINAYA S	52	34							56	38						35	26	26	7		8			9	59	34	64	73	26	35
3	620318104003	ABITHA V	50	34							55	37						34	26	26	9		9			8	59	34	64	71	26	34
4	620318104004	ANBARASI A	53	36							56	38						36	27	27	8		9			8	61	36	65	73	27	35
5	620318104005	ANITHA A	50	34							55	37						36	27	27	9		8			8	59	34	63	72	27	35
6	620318104006	ARULMOZHI G	58	38							56	38						36	27	27	9		9			8	67	38	65	74	27	35
7	620318104008	BHUVANESHWARI R	50	34							55	37						35	26	26	8		9			8	58	34	64	72	26	34
8	620318104009	DEEPIKA M	53	36							55	37						36	27	27	9		8			7	62	36	63	73	27	34
9	620318104010	DEVAYANI J	50	34							56	38						35	26	26	8		9			7	58	34	65	72	26	33
10	620318104011	DEVIPRIYA S	52	34							55	37						35	26	26	9		8			9	61	34	63	72	26	35
11	620318104012	DHIVYA P	50	33							56	38						34	26	26	9		9			9	59	33	65	72	26	35
12	620318104013	DHIVYA R	52	34							55	37						36	27	27	9		8			8	61	34	63	72	27	35
13	620318104017	ELAVARSI C	52	34							55	37						37	28	28	9		8			8	61	34	64	74	28	37
14	620318104018	ELAVARSI M	56	37							56	38						36	27	27	9		8			8	65	37	65	74	27	35


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BHARATHIYAR INSTITUTE OF ENGINEERING FOR WOMEN,DEVYAKURICHI
DEPARTMENT OF CSE
COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION
ACADEMIC YEAR : 2020 - 2021 (EVEN SEM)

CLASS /SEC: III CSE


Batch:2018-2022

SUBJECT : CS8601 (C312)/ MOBILE COMPUTING

CO Attainment Level: 1 - (60% - 69%) 2- (70%-79%) 3-(80% and Above)

TOTAL STRENGTH: 50

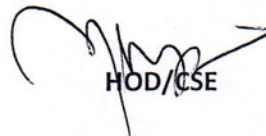
S.NO	REGISTER NUMBER	NAME	UNIV. GRADE
1	620318104001	ABARNA L	B+
2	620318104002	ABINAYA S	A
3	620318104003	ABITHA V	A
4	620318104004	ANBARASI A	A+
5	620318104005	ANITHA A	B+
6	620318104006	ARULMOZHI G	A+
7	620318104008	BHUVANESHWARI R	B
8	620318104009	DEEPIKA M	A
9	620318104010	DEVAYANI J	B
10	620318104011	DEVIPRIYA S	A
11	620318104012	DHIVYA P	A
12	620318104013	DHIVYA R	A
13	620318104017	ELAVARSI C	A+
14	620318104018	ELAVARSI M	A+
15	620318104019	FARHANA A Z	B
16	620318104020	GAYATHRI G	B+
17	620318104022	GOKILA G	B+
18	620318104023	HARITHA B	B+
19	620318104024	INDHUMATHI R	B+
20	620318104025	JANAKI P	U
21	620318104026	JAYASREE A	A
22	620318104027	JEENATH S	A
23	620318104028	JEEVITHA K	A+
24	620318104029	JOTHIKA T	A+
25	620318104030	KALPANA P	B+
26	620318104032	KAVIYA K	B+
27	620318104033	KAVIYA P	B+
28	620318104034	KAYALVIZHI K	A
29	620318104035	KEERTHANA R	B+
30	620318104036	ELANGO	A
31	620318104037	KOWSALYA.A	A+
32	620318104038	LAVANYA V P	A
33	620318104039	MOHANAPRIYA K	B+
34	620318104040	MUTHULAKSHMI M	B+
35	620318104041	MUTHULAKSHMI P	B+
36	620318104042	NARMATHA B	B+



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S

37	620318104043	NITHYA D	B+
38	620318104044	PREETHA G	B
39	620318104045	PRIYA V	A
40	620318104046	PRIYA CHRISTY L	A
41	620318104048	SARANYA V	B+
42	620318104049	SATHYA S	B
43	620318104050	SELVAMANI M	A
44	620318104051	SHARUMATHI S	A
45	620318104052	SIVASANKARI C	A
46	620318104053	SNEHA J	A
47	620318104055	SUGANTHI M	A
48	620318104056	SUMAIYA BANU M	A
49	620318104057	TAMIL MALAR P	B
50	620318104058	THULASI G	B+
No. of O Grade			0
No. of A+ Grade			7
No. of A Grade			19
No. of B+ Grade			17
No. of B Grade			6
No. of U Grade			1
Target for course outcome Attainment			60
No of students above the target			49
CO-Attainment University (%)			98.00

V. Ragun
Faculty Incharge


HOD/CSE


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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
C312.1	100.0	98.00	98.4	3
C312.2	100.0	98.00	98.4	3
C312.3	100.0	98.00	98.4	3
C312.4	100.0	98.00	98.4	3
C312.5	100.0	98.00	98.4	3
C312.6	100.0	98.00	98.4	3

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	2	1	1	1	1	-	-	-	-	1	1	1
C312.2	2	1	1	1	1	-	-	-	-	1	1	1
C312.3	2	1	1	1	1	-	-	-	-	1	1	1
C312.4	2	1	1	1	1	-	-	-	-	1	1	1
C312.5	2	1	1	1	1	-	-	-	-	1	1	1
C312.6	2	1	1	1	1	-	-	-	-	1	1	1
C312	2	1	1	1	1	-	-	-	-	1	1	1

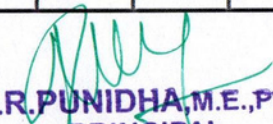
PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312.1	2	1	1	1	1	-	-	-	-	1	1	1
C312.2	2	1	1	1	1	-	-	-	-	1	1	1
C312.3	2	1	1	1	1	-	-	-	-	1	1	1
C312.4	2	1	1	1	1	-	-	-	-	1	1	1
C312.5	2	1	1	1	1	-	-	-	-	1	1	1
C312.6	2	1	1	1	1	-	-	-	-	1	1	1
C312	2	1	1	1	1	-	-	-	-	1	1	1

Attainment of POs and PSOs:

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C312	2	1	1	1	1	-	-	-	-	1	1	1
Attainment	2	1	1	1	1	-	-	-	-	1	1	1

Comments by Program Coordinator	1. <i>NIE</i>
	2. <i>NSE</i>
Remarks by HoD	<i>NIE</i>


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