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

(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)

2019-2020

ATTAINMENT EVALUATION OF POs & COs

INFORMATION TECHNOLOGY
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Department of Information Technology
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.	2.76	2.65	95.95%
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.	2.38	2.25	94.55%
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.	2.08	1.99	95.70%
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.	1.82	1.74	95.60%
PO5	Modern tool usage: Create, select, and apply appropriate techniques, resources, andmodern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.	1.71	1.67	97.81%

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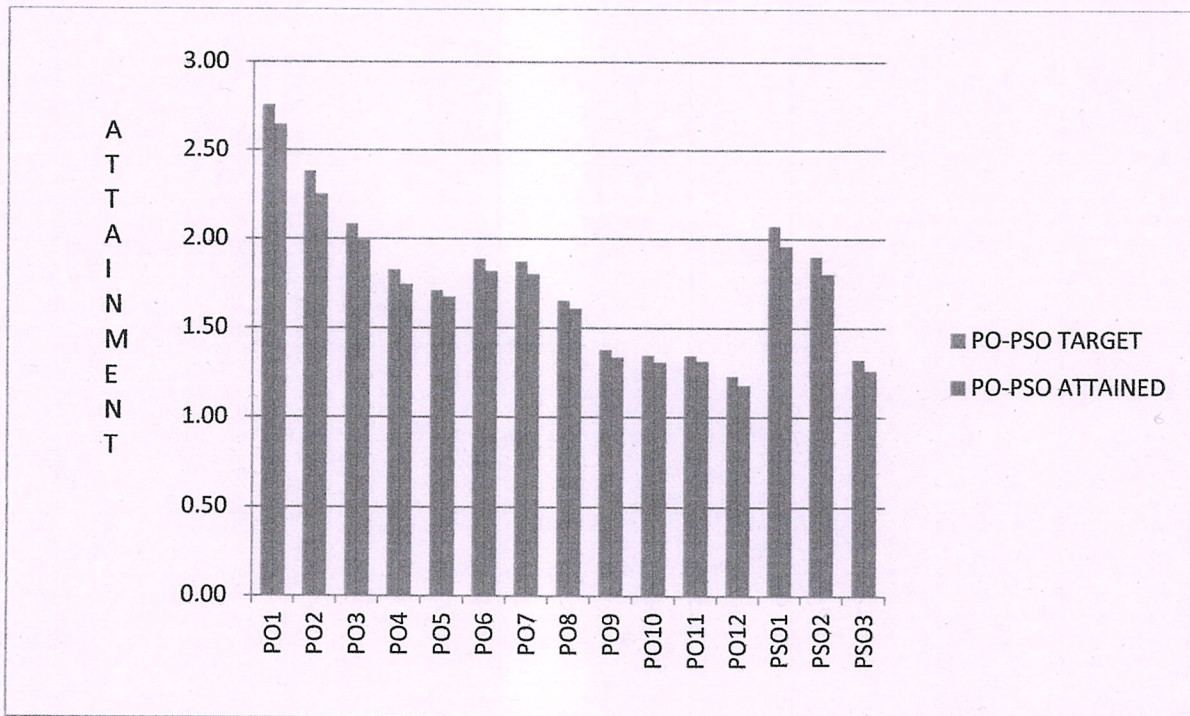|				
PO6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.	1.89	1.82	96.40%
PO7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.	1.87	1.80	96.26%
PO8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.	1.65	1.61	97.22%
PO9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.	1.38	1.34	97.02%
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.	1.35	1.31	97.17%
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.	1.35	1.32	97.73%
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.	1.23	1.18	95.94%
PSO1	To create, select, and apply appropriate techniques, resources, modern engineering and IT tools including prediction and modelling to	2.07	1.96	94.63%

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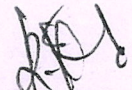Kaikkurchi - 622 303, Pudukkottai Dt.

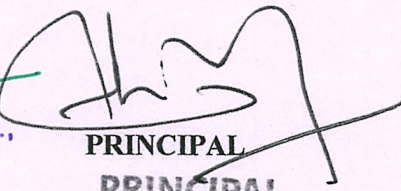|				
	complex engineering activities with an understanding of the limitations.			
PSO2	To manage complex IT projects with consideration of the human, financial, ethical and environmental factors and an understanding of risk management processes, and operational and policy implications.	1.90	1.80	94.86%
PSO3	To adapt to emerging Information and Communication Technologies (ICT) to innovate ideas and solutions to existing/novel problems.	1.33	1.26	95.42%

DEPARTMENT OF INFORAMTION TECHNOLOGY

ACADEMIC YEAR 2019 - 2020

CO-PO-PSO TARGET VS ATTAINED

SRI BHARATHI ENGINERRING COLLEGE FOR WOMEN,KAIKKURICHI

Department of Information Technology

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

ACADEMIC YEAR - 2019-2020			BATCH		2017 - 2021				
COURSE CODE/TITLE	CS8592(C311)OBJECT ORIENTED ANALYSIS AND DESIGN		COURSE OUTCOME		1	2	3	4	5	6
YEAR/SEM	III/ VI		TARGET(%)		65	65	65	65	65	65
COURSE COORDINATOR	R.VIJAY		TOTAL STRENGTH		9					

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 ALLOTED						IAT 2 - MARKS ALLOTED						IAT 3 - MARKS ALLOTED						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	912617205001	ANUSHIYA T	24	16							30	46							0	0	8	7				8	24	24	37	46	0	8
2	912617205002	GAYADHRI S	36	24							32	47							0	0	8	8				9	36	32	40	47	0	9
3	912617205003	KALAIVANI K	37	25							33	50							0	0	9	7				8	37	34	40	50	0	8
4	912617205004	MARYSELCIYA S	50	33							36	53							0	0	8	8				9	50	41	44	53	0	9
5	912617205005	MERCYKIRUBA S	25	17							30	45							0	0	7	9				9	25	24	39	45	0	9
6	912617205006	RUPASRI M	42	28							34	50							0	0	9	8				8	42	37	42	50	0	8
7	912617205007	SHANMATHI S	37	25							34	50							0	0	8	9				9	37	33	43	50	0	9
8	912617205008	VINODHINI M	49	32							38	57							0	0	9	8				9	49	41	46	57	0	9
9	912617205301	HEMALATHA A	32	22							28	42							0	0	9	9				8	32	31	37	42	0	8

	C1	C2	C3	C4	C5	C6
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	3	5	9	9	0	0
Percentage of Students scored above Target	33.3	55.6	100.0	100.0	0.0	0.0
CO Attainment	0	0	3	3	0	0
CO attainment Values to plot the Graph	0	0	3	3	0	0

Course Outcomes Vs Attainment Level

Course Outcomes (C1, C2, C3, C4, C5 & C6)
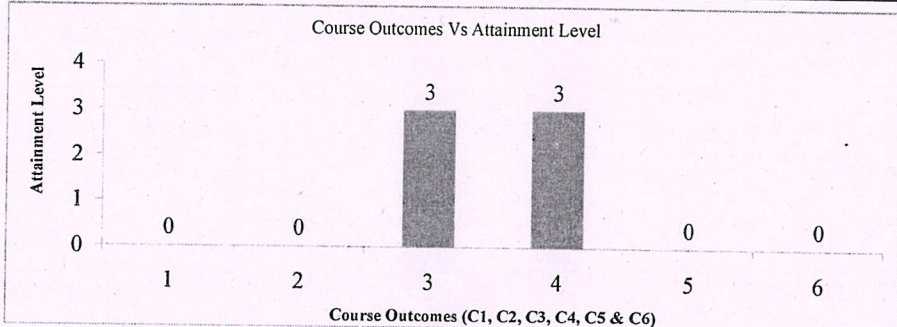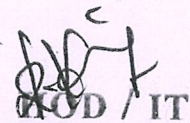
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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN
DEPARTMENT OF IT
COURSE OUTCOME ATTAINMENT - UNIVERSITY EXAMINATION
ACADEMIC YEAR : 2019 - 2020 (EVEN SEM)

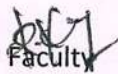YEAR /SEM: III CSE / VI   Batch:2017-2021

SUBJECT :CS8592 (C311) OBJECT ORIENTED ANALYSIS AND DESIGN

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

TOTAL STRENGTH :   9

S.NO	Register No	NAME	Univ. Grade	
1	912617205001	ANUSHIYA T	B	
2	912617205001	GAYADHRI S	B+	
3	912617205001	KALAIVANI K	B+	
4	912617205001	MARYSELCIYA S	A+	
5	912617205001	MERCYKIRUBA S	B	
6	912617205001	RUPASRI M	A	
7	912617205001	SHANMATHI S	B+	
8	912617205001	VINODHINI M	A+	
9	912617205001	HEMALATHA A	B	
No. of O Grade			0	0
No. of A+ Grade			2	2
No. of A Grade			1	1
No. of B+ Grade			3	3
No. of B Grade			3	3
No. of U Grade			0	0
No. of UA Grade			0	0
Target for course outcome Attainment			60	9
No of students above the target			9	
CO-Attainment University (%)			100.00	

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
C402.1	33.3	100.00	86.7	3
C402.2	55.6	100.00	91.1	3
C402.3	100.0	100.00	100.0	3
C402.4	100.0	100.00	100.0	3
C402.5	0.0	100.00	80.0	3
C402.6	0.0	100.00	80.0	3

Closure of the Quality Loop:

CO	CO-Target for Academic Year						CO Attainment Gap	Action Proposed to
	14-15		15-16		16-17			
C311.1	65	79.71	65	69	65	86.7	-	-
C311.2	65	79.71	65	71.17	65	91.1	-	-
C311.3	65	79.71	65	63.15	65	100.0	-	-
C311.4	65	79.71	65	75.11	65	100.0	-	-
C311.5	65	79.71	65	73.57	65	80.0	-	-
C311.6	65	79.71	65	68.44	65	80.0	-	

Expected CO-PO Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C311.1	3	1	1	1	1	-	-	-	1	1	1	1	1	2	1
C311.2	3	2	2	1	1	-	-	-	1	1	1	1	2	1	1
C311.3	3	2	2	1	1	-	-	-	1	1	1	1	1	1	1
C311.4	2	1	1	1	1	-	-	-	1	1	1	1	1	1	1
C311.5	2	1	1	1	1	-	-	-	1	1	1	1	1	1	1
C311.6	1	1	1	1	1	-	-	-	1	1	1	1	1	1	1
C311	2.3	1.3	1.3	1	1	-	-	-	1	1	1	1	1.2	1.2	1

PO Attainment Level

Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C311.1	3	1	1	1	1	-	-	-	1	1	1	1	1	2	1
C311.2	3	2	2	1	1	-	-	-	1	1	1	1	2	1	1
C311.3	3	2	2	1	1	-	-	-	1	1	1	1	1	1	1
C311.4	2	1	1	1	1	-	-	-	1	1	1	1	1	1	1
C311.5	2	1	1	1	1	-	-	-	1	1	1	1	1	1	1
C311.6	1	1	1	1	1	-	-	-	1	1	1	1	1	1	1
C311	2.33	1.33	1.33	1	1	-	-	-	1	1	1	1	1.17	1.17	1

Attainment of POs and PSOs.

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C402	2.3	1.3	1.3	1	1	-	-	-	1	1	1	1	1.2	1.2	1
Attainment	2.33	1.33	1.33	1	1	-	-	-	1	1	1	1	1.17	1.17	1

Comments by Program Coordinator	
Remarks by HoD	

Name and Signature
of the Faculty Member

R.VIJAY

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DEPARTMENT OF INFORMATION TECHNOLOGY

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 target level in each POs and PSOs, the following corrective measures were taken.

S.NO	Name of the activity Proposed	Focussed POs and PSOs
1	**Value Added Course(VAC) -** Rest API With Flask And Python	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)-** Servlet Programming using JSP	PO1,PO2,PO3,PO4, PSO1,PSO2,PSO3