



# 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 - AQAR DOCUMENTS



Quality Indicator Frame Work

Criterion – 1

**CURRICULAR ASPECTS**

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)

Pudukkottai - Aranthangi Road,  
**Kaikkurichi, Pudukkottai - 622 303.**

Date : .....


## **TO WHOMSOEVER IT MAY CONCERN**

**1.4.2 –Institution obtain feedback on the academic performance and ambience of the institution from various stakeholders and action taken report on the feedback is made available on institution website.**

*Feedback process of the Institution may be classified as follows*

- A. Feedback collected, analyzed and action taken and feedback available on website*
- B. Feedback collected, analyzed and action has been taken*
- C. Feedback collected, analyzed*
- D. Feedback collected*
- E. Feedback not collected*

**Response: Option A. Feedback collected, analyzed and action taken and feedback available on website**

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



# **SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

**KAIKKURICHI, PUDUKKOTTAI, 622303**

<b>Criterion 1</b>	<b>Curricular Aspects</b>
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**1.4.2 Institution obtains feedback on the syllabus and its transaction at the institution from various stakeholders, such as Students, Teachers, Employers, Alumni and action taken report on the feedback is made available on institutional website.**

**2023-2024**

<b>S.NO.</b>	<b>DETAILS</b>	<b>PAGE NO</b>
<b>1.</b>	<b>FEEDBACK ANALYSIS REPORT (Student,Teacher,Alumni,Parent,Employer)</b>	<b>4-11</b>
<b>2.</b>	<b>ACTION TAKEN REPORT</b>	<b>12-14</b>
<b>3.</b>	<b>PROOF OF ACTION TAKEN REPORT</b>	<b>15-30</b>



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
(Approved by AICTE, Affiliated to Anna University, Chennai, India)

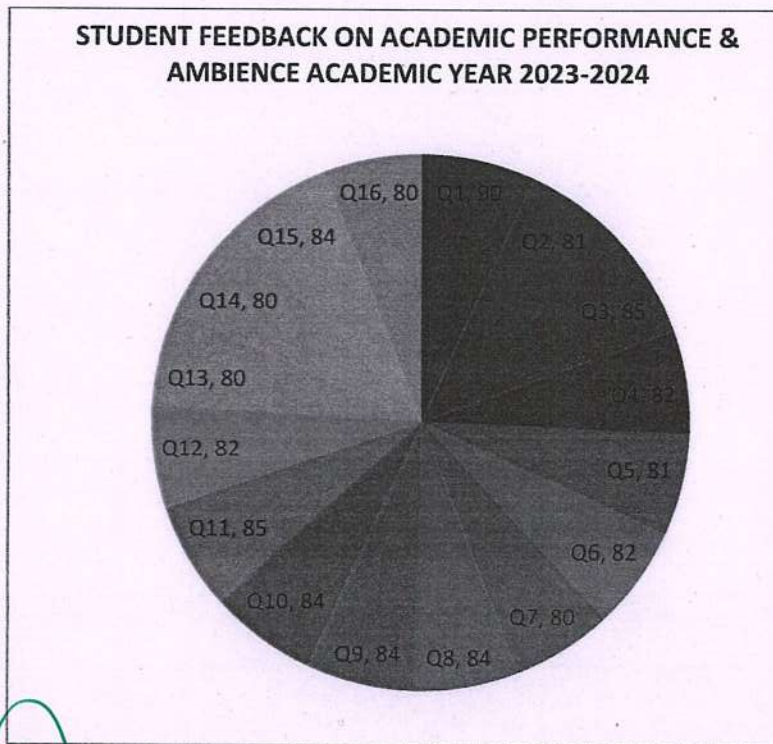
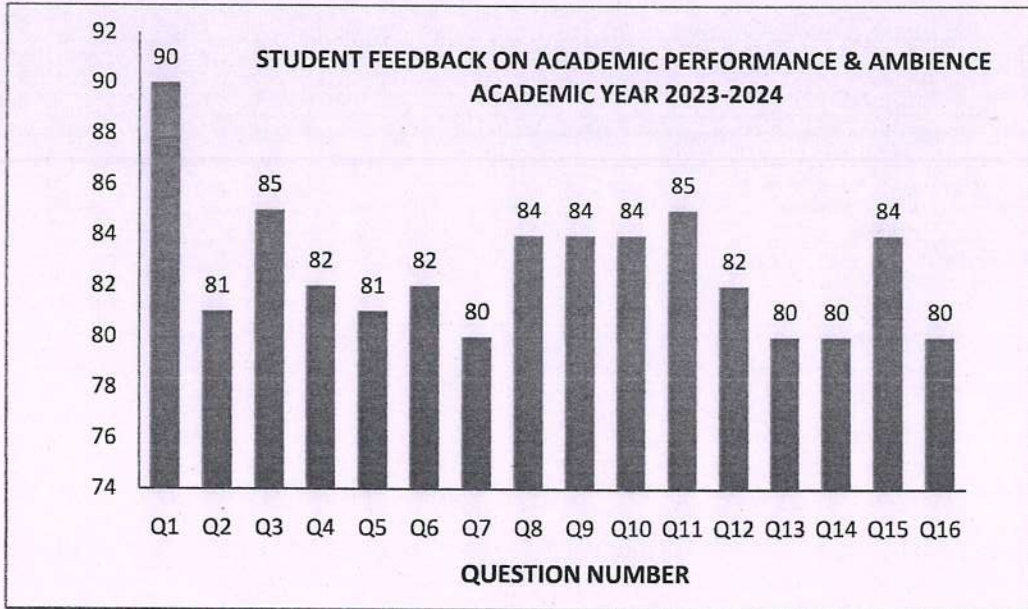


Kaikkurichi, Pudukkottai – 622 303

**CONSOLIDATED REPORT STUDENTS FEEDBACK ON ACADEMIC  
PERFORMANCE & AMBIENCE  
ACADEMIC YEAR 2023-2024**

Q.NO	PARTICULARS	AVERAGE	PERCENTAGE
1.	The syllabus of the courses that you have studied in relation to the course competencies expected.	3.60	90
2.	The course curriculum framed by university is relevant to the programme and year of study.	3.24	81
3.	The allocation of the hours and credit to the course.	3.40	85
4.	The electives offered in syllabus are in relation to the technological advancement.	3.28	82
5.	Size of syllabus in terms of the load on the student.	3.26	81
6.	The courses in terms of extra learning or self-learning considering the design of the courses.	3.27	82
7.	The evaluation scheme designed for each of the course.	3.19	80
8.	The Syllabus coverage as prescribed by University.	3.34	84
9.	The experiments in the lab courses are relation to the real time application.	3.36	84
10.	The co-curricular activities conducted to bridge the gap between Academic and Industrial needs.	3.36	84
11.	The alternative source of energy & energy conservation methods adopted by institution.	3.40	85
12.	The management of various types of degradable and non-degradable waste in the college campus.	3.27	82
13.	The technologies for water conservation facility and green campus facility available in the college campus.	3.19	80
14.	The desire friendly and barrier free environment provided by institution.	3.18	80
15.	The ICT facilities available in class room, computing facilities provided by the institution.	3.36	84
16.	The infrastructure facilities available to meet out curricular,co-curricular,extracurricular activities by the institution	3.19	80

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



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

  
 PRINCIPAL



## SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, Affiliated to Anna University, Chennai, India)

Kaikkurichi, Pudukkottai – 622 303



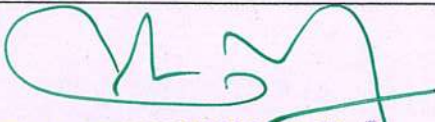
### CONSOLIDATED REPORT TEACHER FEEDBACK ON ACADEMIC

#### PERFORMANCE & AMBIENCE

#### ACADEMIC YEAR 2023-2024

TOTAL ENTRY:49

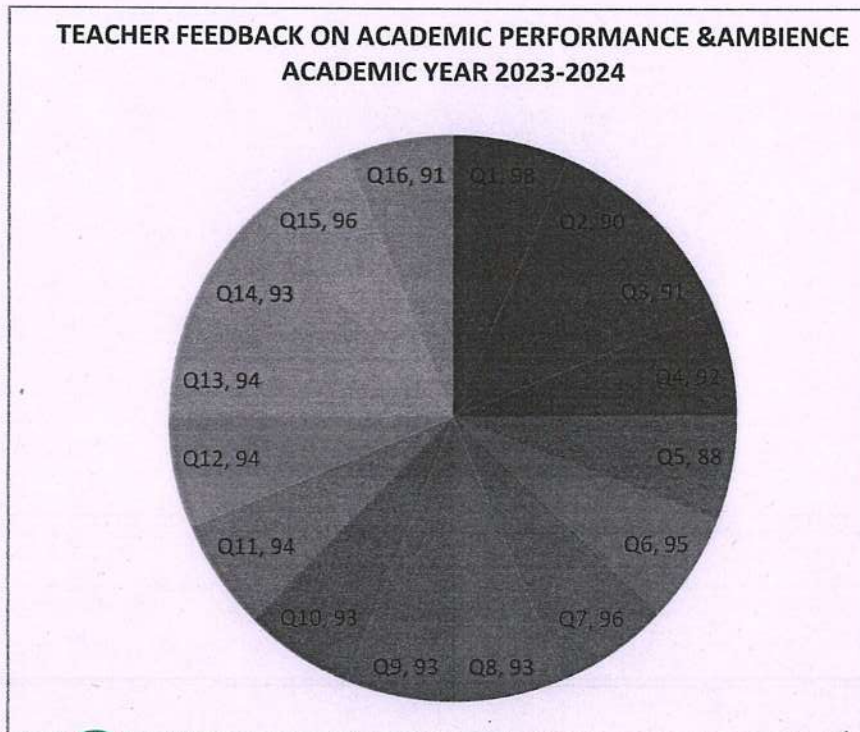
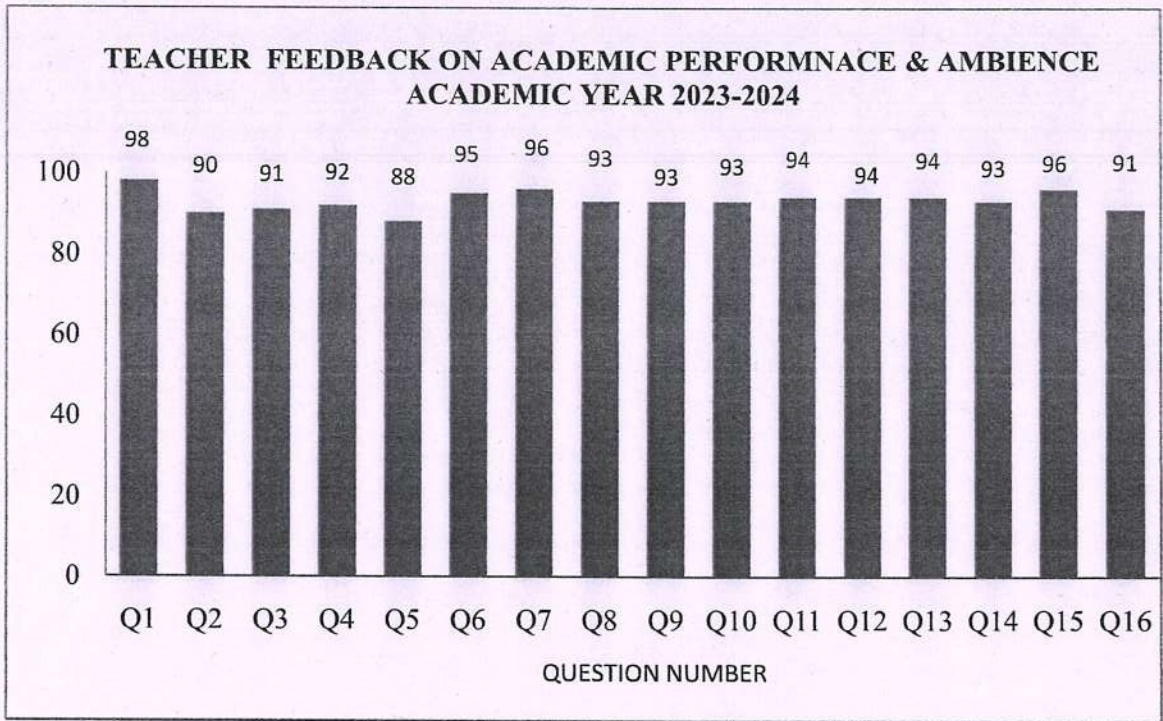
Q.NO	PARTICULARS	AVERAGE	PERCENTAGE
1.	The syllabus of the courses that you have studied in relation to the course competencies expected.	3.94	98
2.	The course curriculum framed by university is relevant to the programme and year of study.	3.59	90
3.	The allocation of the hours and credit to the course.	3.63	91
4.	The electives offered in syllabus are in relation to the technological advancement.	3.69	92
5.	Size of syllabus in terms of the load on the student.	3.51	88
6.	The courses in terms of extra learning or self-learning considering the design of the courses.	3.80	95
7.	The evaluation scheme designed for each of the course.	3.84	96
8.	The Syllabus coverage as prescribed by University.	3.73	93
9.	The experiments in the lab courses are relation to the real time application.	3.73	93
10.	The co-curricular activities conducted to bridge the gap between Academic and Industrial needs.	3.71	93
11.	The alternative source of energy & energy conservation methods adopted by institution.	3.76	94
12.	The management of various types of degradable and non-degradable waste in the college campus.	3.76	94
13.	The technologies for water conservation facility and green campus facility available in the college campus.	3.78	94
14.	The desire friendly and barrier free environment provided by institution.	3.71	93
15.	The ICT facilities available in class room, computing facilities provided by the institution.	3.84	96
16.	The infrastructure facilities available to meet out curricular,co-curricular,extracurricular activities by the institution	3.65	91

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

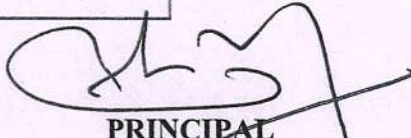
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**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
 PRINCIPAL  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurchi - 622 303, Pudukkottai Dt.

  
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## SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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Kaikkurichi, Pudukkottai – 622 303



### CONSOLIDATED REPORT ALUMNI FEEDBACK ON ACADEMIC PERFORMANCE

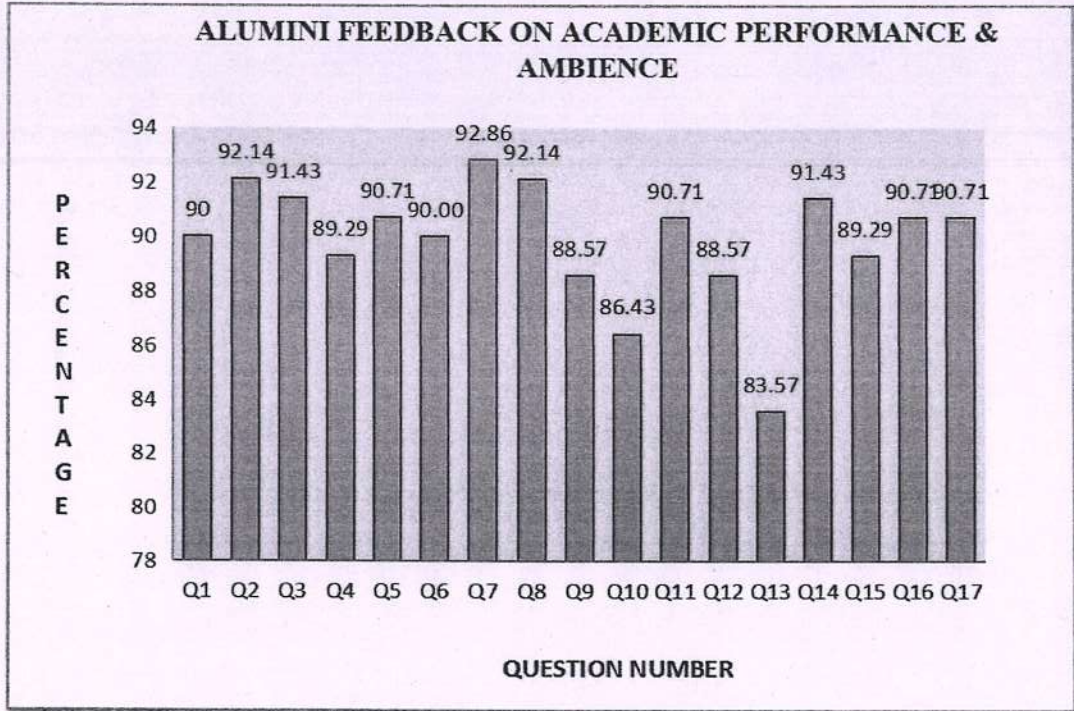
#### & AMBIENCE

#### ACADEMIC YEAR 2023-2024

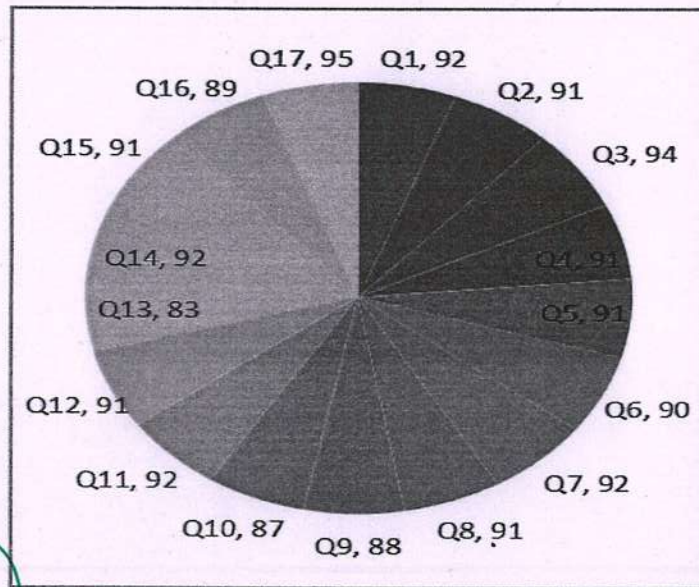
Q.NO	PARTICULARS	AVERAGE	PERCENTAGE
1.	The syllabus of the courses that you have studied in relation to the course competencies expected.	3.60	90.00
2.	The course curriculum framed by university is relevant to the programme and year of study.	3.69	92.14
3.	The allocation of the hours and credit to the course.	3.66	91.43
4.	The electives offered in syllabus are in relation to the technological advancement.	3.57	89.29
5.	Size of syllabus in terms of the load on the student.	3.63	90.71
6.	The courses in terms of extra learning or self-learning considering the design of the courses.	3.60	90.00
7.	The evaluation scheme designed for each of the course.	3.71	92.86
8.	The Syllabus coverage as prescribed by University.	3.69	92.14
9.	The experiments in the lab courses are relation to the real time application.	3.54	88.57
10.	The co-curricular activities conducted to bridge the gap between Academic and Industrial needs.	3.46	86.43
11.	Training, Placement and Campus Recruitment offered by the Institution.	3.63	90.71
12.	The alternative source of energy & energy conservation methods adopted by institution.	3.54	88.57
13.	The management of various types of degradable and non-degradable waste in the college campus.	3.34	83.57
14.	The technologies for water conservation facility and green campus facility available in the college campus.	3.66	91.43
15.	The desire friendly and barrier free environment provided by institution.	3.57	89.29
16.	The ICT facilities available in class room, computing facilities provided by the institution.	3.63	90.71
17.	The infrastructure facilities available to meet out curricular,co-curricular,extracurricular activities by the institution	3.63	90.71

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





**ALUMNI FEEDBACK ON ACADEMIC PERFORMANCE & AMBIENCE  
ACADEMIC YEAR 2023-2024**



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

*(Signature)*  
**PRINCIPAL**



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, Affiliated to Anna University, Chennai, India)

Kaikkurichi, Pudukkottai – 622 303



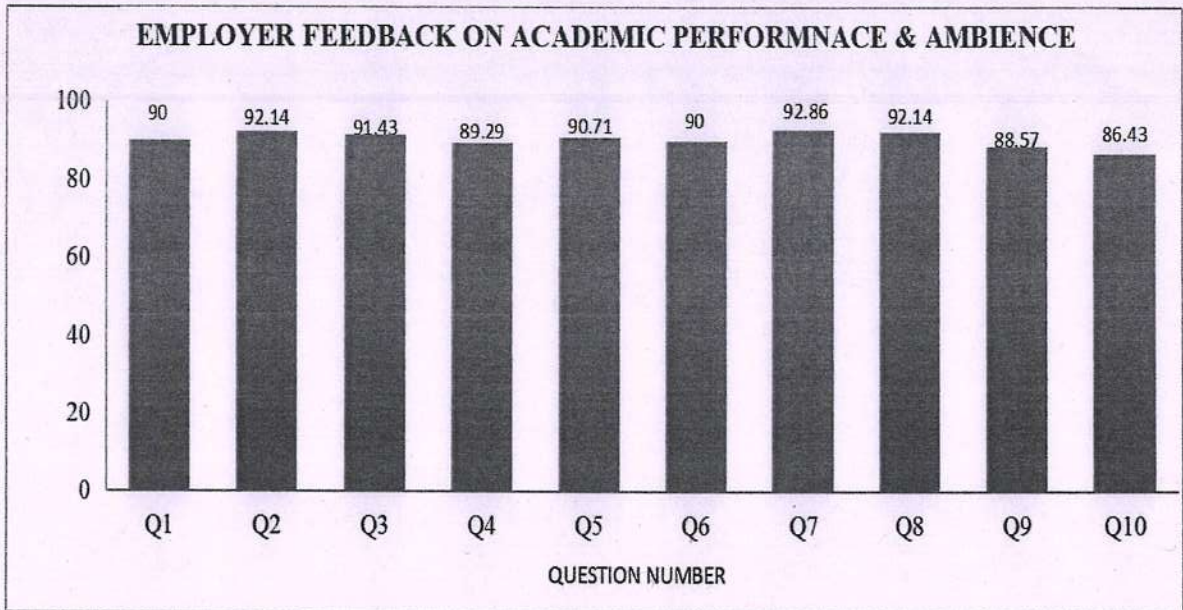
## CONSOLIDATED REPORT EMPLOYER FEEDBACK ON ACADEMIC

### PERFORMANCE & AMBIENCE

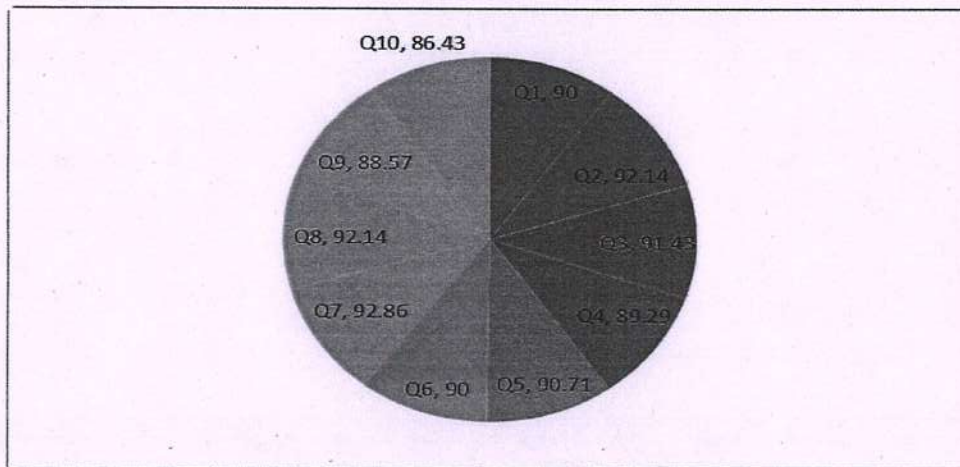
#### ACADEMIC YEAR 2023-2024

Q.NO	PARTICULARS	AVERAGE	PERCENTAGE
1.	The syllabus of the courses that you have studied in relation to the course competencies expected.	3.60	90.00
2.	The course curriculum framed by university is relevant to the programme and year of study.	3.69	92.14
3.	The allocation of the hours and credit to the course.	3.66	91.43
4.	Training, Placement and Campus Recruitment offered by the Institution.	3.57	89.29
5.	The alternative source of energy & energy conservation methods adopted by institution.	3.63	90.71
6.	The management of various types of degradable and non-degradable waste in the college campus.	3.60	90.00
7.	The technologies for water conservation facility and green campus facility available in the college campus.	3.71	92.86
8.	The desire friendly and barrier free environment provided by institution.	3.69	92.14
9.	The ICT facilities available in class room, computing facilities provided by the institution.	3.54	88.57
10.	The infrastructure facilities available to meet out curricular,co-curricular,extracurricular activities by the institution	3.46	86.43

  
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**EMPLOYER FEEDBACK ON ACADEMIC PERFORMANCE & AMBIENCE  
ACADEMIC YEAR 2023-2024**



  
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# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

**KAIKKURICHI, PUDUKKOTTAL, 622303**

## STAKEHOLDER FEEDBACK ON ACADEMIC PERFORMANCE

### & AMBIENCE

### Action Taken Report - 2023-2024

Date: 06.06.2024

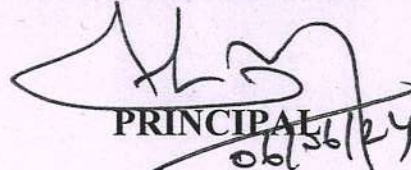
In order to improve the quality initiative, our Institution IQAC collected the feedback about R-2021 curriculum and the syllabus followed in our Institution from the various stake holders(students, Faculty members, Alumni, Employer) offered by Anna University Chennai.

As a result, the collected feedback about the curriculum and syllabus were analyzed and based on the suggestion/representation received from the stakeholder in every department for bridging the curricular gap the following topics were suggested to include in Existing Anna University R-2021 Curriculum and Syllabus with recent trends for the benefit of the students community.

S.No	Name of the Degree	Course Code	Name of the course	Topic to be included	Unit No
1.	B.E-Civil Engineering	CE3351	Surveying and Levelling	Advanced Surveying using Total Station	5
2.	B.E-Computer Science and engineering	CS3352	Foundations of Data Science	Describing Data	2
3.	B.E-Electronics and Communication Engineering	EC3353	Electronic Devices and Circuits	Schematic Design Basics in PCB Design	1
4.	B.E-Electrical and Electronics Engineering	EC3001	Utilization and Conservation of Electrical Energy	Energy Forecasting with Data Analytics	4

In this regard we kindly request you to discuss the above recommendations in the forthcoming Board of studies (BoS) meeting and do the needful for the betterment of students Community.

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

  
PRINCIPAL  
06/06/24



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

**KAIKKURICHI, PUDUKKOTTAI, 622303**

## STAKEHOLDER FEEDBACK ON ACADEMIC PERFORMANCE & AMBIENCE

### Action Taken Report - 2023-2024


In order to improve the quality initiative, our Institution IQAC collected the feedback about R-2021 curriculum and the syllabus followed in our Institution from the various stake holders(students, Faculty members, Alumni, Employer) offered by Anna University Chennai.

As a result, the collected feedback about the curriculum and syllabus were analyzed and based on the suggestion we sent a letter to Anna University and Requested to discuss the recommendations given in the forthcoming Board of Studies (BoS) meeting for the betterment of students community.(copy enclosed)

In addition to that, the following value added courses were offered by all Departments of SBECW in the academic year 2023-2024 to enhance the curricular content with recent trend for the benefit of the student community with the approval from various Department.

#### **List of Value courses conducted to bridge the curricular gap**

S.No	VAC Course Name	Department
1.	Advanced Surveying using Total Station	CIVIL
2.	Advanced Structural Analysis using FEM	
3.	Prototype Development using 3D Printing	CSE
4.	Data Science: From Raw Data to Informed Decisions	
5.	Foundational Electronics and PCB Designing	ECE
6.	Data Science With Machine Learning	
7.	Foundational Electronics and PCB Designing	EEE
8.	Energy Forecasting with Data Analytics	

  
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PRINCIPAL  
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Kaikkurichi - 622 303, Pudukkottai Dt.

  
PRINCIPAL  
06/06/24



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)

Pudukkottai - Aranthangi Road,  
Kaikkurichi, Pudukkottai - 622 303.

Date : .....

To

The Director,  
Center for Academic Courses,  
Anna University,  
Chennai-600025.

Respected Sir / Madam,


Sub: Requisition to include the identified topics to bridge the curricular gap in R-2021 Curriculum-reg.

In order to improve the quality initiative, our Institution IQAC collected the feedback about R-2021 curriculum and the syllabus followed in our Institution from the various stake holders(students, Faculty members, Alumni, Employer) offered by Anna University Chennai.

As a result, the collected feedback about the curriculum and syllabus were analyzed and based on the suggestion/representation received from the stakeholder in every department for bridging the curricular gap the following topics were suggested to include in Existing Anna University R-2021 Curriculum and Syllabus with recent trends for the benefit of the students community.

S.No	Name of the Degree	Course Code	Name of the course	Topic to be included	Unit No
1.	B.E-Civil Engineering	CE3351	Surveying and Levelling	Advanced Surveying using Total Station	5
2.	B.E-Computer Science and engineering	CS3352	Foundations of Data Science	Describing Data	2
3.	B.E-Electronics and Communication Engineering	EC3353	Electronic Devices and Circuits	Schematic Design Basics in PCB Design	1
4.	B.E-Electrical and Electronics Engineering	EC3001	Utilization and Conservation of Electrical Energy	Energy Forecasting with Data Analytics	4

In this regard we kindly request you to discuss the above recommendations in the forthcoming Board of studies (BoS) meeting and do the needful for the betterment of students Community.

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

  
PRINCIPAL  
03/06/21



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## Report on Value Added Course

Title:	<b>Advanced Surveying using Total Station</b>				
Resource Persons:	P.Bharath, Surveyor, DRAFT 360 <sup>0</sup> Topo Planners & Engineering Surveyors, No.1, Valar Tamil Nagar, Trichy.	C.Alagar Surveyor, DRAFT 360 <sup>0</sup> Topo Planners & Engineering Surveyors, No.1, Valar Tamil Nagar, Trichy.			
Date of conduct from :	<b>31.07.2023</b>	To:	<b>05.08.2023</b>	Duration:	<b>36 Hours</b>
Organized Department :	<b>CIVIL ENGINEERING</b>				
Participant Year:	<b>3, 4</b>	Semester:	<b>ODD</b>	No. of Students Registered :	<b>14</b>
Venue:	<b>First Floor - Lecture Hall : 30</b>				

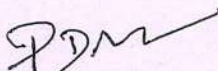
### **Outcome of Value Added Course (VAC): At the end of the Course, Students can able to**

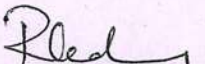
- Know the Working principles of total station.
- Know how to make Corrections for its effects.
- Understand the functioning of various types of total station and their applications.
- Understand the various techniques available for surveying and mapping with total station.
- Extract data from total station.
- Convert data from total station to AutoCAD Drawing

No. of students successfully completed the VAC course is **14 students** based on the following assessment process.

### **Assessment Process**

- Students, who are securing **more than 60% on total score** and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score =  $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

  
VAC Coordinator

  
HoD/Civil  
HOD / CIVIL

  
Principal  
PRINCIPAL

  
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COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303


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



**DRAFT 360° TOPO PLANNERS &  
ENGINEERING SURVEYORS  
CERTIFICATE OF PARTICIPATION**

This Certificate is awarded to Ms. ASWINI T, B.E - Civil Engineering, IV year, Sri Bharathi Engineering College for Women, for successfully completed the Value Added Course on "Advanced Surveying using Total Station" Conducted from 31.07.2023-05.08.2023 (6 days) during the Academic year 2023-2024.

  
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PRINCIPAL  
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Kaikkurchi - 622 303, Pudukkottai Dt.

  
**SIGNATURE**  
Surveyor,  
Draft 360° Topo  
Planners & Engineering  
Surveyors,

G. RAJKUMAR  
Flat No:01, 1st Floor,  
Valar Tamil Nagar Extension,  
HP Petrol Bunk Opposite,  
National Highway Road, Palur,  
No.1 Tollgate, Trichy-621 216.  
Cell: 9994958253, 9360492486,  
6385693974, 9489623936





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

### Report on Value Added Course

Title:	<b>Advanced Structural Analysis using Finite Element Method</b>				
Resource Persons:	J.Andrews Livingston B.E., Senior Engineer , Golden Bell Construction, 2/699, Mugappair Industrial Estate, Mugappair west, Chennai – 37.	C.Raja B.E., Site Engineer, Golden Bell Construction, 2/699, Mugappair Industrial Estate, Mugappair west, Chennai – 37.			
Date of conduct from :	12.03.2024	To:	16.03.2024	Duration:	30 Hours
Organized Department :	<b>CIVIL ENGINEERING</b>				
Participant Year:	2,3& 4	Semester:	EVEN	No. of Students Registered :	30
Venue:	<b>First Floor - Lecture Hall : 30</b>				

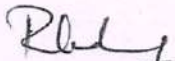
#### **Outcome of Value Added Course (VAC): At the end of the Course, Students can able to**

- Know the principles of Finite Element Method.
- Explain the concept of Various Finite Element Methods.
- Know the Finite Element Error Analysis.
- Analyse the various types of Trusses using Finite Element Method.
- Calculate stress, Geometric Nonlinearity and Static Condensation.

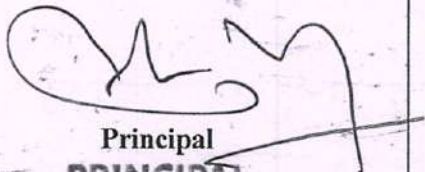
No. of students successfully completed the VAC course is **30 students** based on the following Assessment process.

#### **Assessment Process**

- Students, who are securing **more than 60% on total score** and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score =  $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in VAC out of 100 marks})$

  
VAC Coordinator

  
HoD/Civil  
HOD / CIVIL

  
Principal  
PRINCIPAL

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PUDUKKOTTAI - 622 303

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KAIKKURICHI - 622 303.  
PUDUKKOTTAI DISTRICT

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

Er. ANDREWS LIVINSTON. J.B.E.,  
CIVIL ENGINEER



## Golden Bell

CONSTRUCTIONS

2/699, Mugappair Industrial Estate, Mugappair west, Chennai -37.

✉ goldenbellconstructions@gmail.com 🌐 www.goldenbellconstructions.com

### CERTIFICATE OF PARTICIPATION

This is to certify that Ms. M. ABINAYA B.E Civil, II Year Sri Bharathi Engineering College for Women, Kaikkurichi, Pudukkottai- 622 303 has successfully completed the Value Added course on "ADVANCED STRUCTURAL ANALYSIS USING FINITE ELEMENT METHOD" conducted from 12 March 2024 to 16 March 2024 - 5 days during the Academic year 2023-2024.

Resource Person

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

Principal



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

## Report on Value Added Course

Title:	Prototype Development Using 3D printing Technology				
Resource Person:	<b>Resource Person 1 :</b> Dr. M.Meignanamoorthy Master Trainer Meck Tech Research Foundation Pudukkottai		<b>Resource Person 2 :</b> Mr.P.Kalai Selvan Master Trainer Meck Tech Research Foundation Pudukkottai		
Date of conduct from :	31.07.2023	To:	04.08.2023	Duration:	30 Hours
Organized Department :	COMPUTER SCIENCE AND ENGINEERING				
Participant Year:	3,4	Semester:	ODD	No. of Students Registered :	51
Venue:	Auditorium				

### Outcome of Value Added Course (VAC)

At the end of the VAC course the student can able to:

- Explain the Components of 3D Printer.
- Make Visualized design by 3D Modeling Software.
- Develop their creativity, collaboration, problem solving and Critical thinking skills.
- Carryout multiple iterations of design, size and shapes.
- Explore, design and prototype parts for each type of main stream additive manufacturing technology using various design software as per international standards.
- Familiar with the major applications of 3D Printing and how 3D Printing works.

### Assessment Process

- Students, who are securing **more than 60% on total score** and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted.
- Total Score = (0.5 \*Attendance in VAC out of 100 percentage + 0.5 \*Test mark in VAC out of 100 marks)

VAC Coordinator

HoD / CSE  
HOD / CSE

SRI BHARATHI ENGINEERING  
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PUDUKKOTTAI - 622 303

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

Dr. S.THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

Approved by AICTE - New Delhi, Affiliated to Anna University - Chennai

Kaikurichi, Pudukkottai - 622303



**MECK TECK RESEARCH FOUNDATION**

(Registered Under Ministry of Micro, Small and Medium Enterprises UDYAM-TN-17-0015761)


# C E R T I F I C A T E

O F C O M P L E T I O N

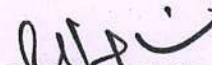
This certificate is presented to:

MS. B. VAISHNAVI - III year - CSE

For the completion of 30 hours of Value Added Course on **Prototype Development Using 3D Printing Technology** from 31.07.2023 to 04.08.2023 organised by Department of Computer Science and Engineering , Sri Bharathi Engineering College For Women in association with Meck Teck Research Foundation, Pudukkottai.

  
FOUNDER & GEO

Meck Teck Research Foundation

  
HOD CSE

SBECW

  
PRINCIPAL

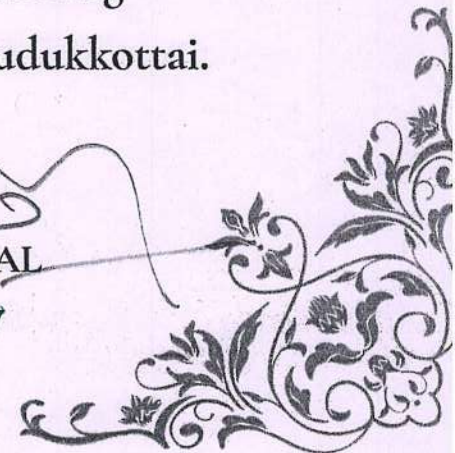
SBECW

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

PRINCIPAL

**SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN**

Kaikurichi - 622 303 Pudukkottai



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India  
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

## Report on Value Added Course

Title: Data Science: From Raw Data to Informed Decisions

Resource Person:	<b>Resource Person 1 :</b> Ms.A.Praveena Master Trainer, Nandha Infotech, Coimbatore.	<b>Resource Person 2 :</b> Ms.A.Atchaya Trainer, Nandha Infotech, Coimbatore	<b>Resource Person 3 :</b> T.Vigneshwaran CEO, Nandha Infotech, Coimbatore
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Date of conduct from : 19.03.2024 To: 23.03.2024 Duration: 30 Hours

Organized Department : Computer Science and Engineering

Participant Year: 2,3,4 Semester: EVEN No. of Students Registered : 109

Venue: Auditorium

### Outcome of Value Added Course (VAC)

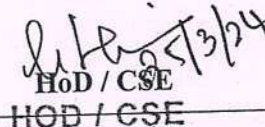
At the end of the VAC course the student can able to:

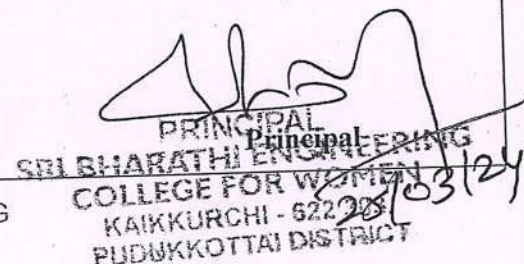
- Collect raw data from various sources, including databases, APIs, and web scraping techniques.
- Identify patterns, trends, and relationships within the data
- Perform statistical analysis on datasets, including hypothesis testing, regression analysis, and correlation analysis
- Apply supervised and unsupervised learning algorithms to build models, evaluate model performance, and make predictions.
- Demonstrate the ability to plan, execute, and iterate on data analysis tasks in a collaborative environment.
- Create clear and compelling data visualizations, reports, and presentations.

### Assessment Process

- Students, who are securing **more than 60% on total score** and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 \* Attendance in VAC out of 100 percentage + 0.5 \* Test mark in VAC out of 100 marks)

  
VAC Coordinator

  
HOD / CSE

  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURCHI - 622 303  
PUDUKKOTTAI DISTRICT

Dr. S. THILAGAVATHI M.E., Ph.D.,  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

SRI BHARATHI ENGINEERING  
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KAIKKURCHI,  
PUDUKKOTTAI - 622 303



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Approved by AICTE New Delhi & Affiliated to Anna University -Chennai

Kaikkurichi, Pudukkottai - 622303

in association with



## NANDHA INFOTECH

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# Certificate

This is to certify that Ms/Mrs ..... ROSAMMAL.M - IV year - CSE .....  
for the completion of 30 hours of Value Added Course on "DATA SCIENCE: FROM RAW DATA  
TO INFORMED DECISIONS" from 19.03.2024 to 23.03.2024 organized by Department  
of Computer Science and Engineering, Sri Bharathi Engineering College For Women  
Pudukkottai, in association with **NANDHA INFOTECH**

T. Vigneshwaran  
CEO Nandha InfoTech



Principal  
SBECW

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

This certificate is issued by Software Company

# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## Report on Value Added Course

Title: FOUNDATIONAL ELECTRONICS AND PCB DESIGNING

Resource Person: **Dr.M.VIJAYAKUMAR,**  
R&D Manager,  
No.3/365 West Street,Thanjavur-614904.  
Tamil Nadu .

Date of conduct from : 31.07.2023 To: 05.08.2023 Duration: 36 Hours

Organized Department : Electronics and Communication Engineering

Participant Year: 3 /4 Semester: ODD No. of Students Registered : 40

Venue: Seminar Hall, ,Ground Floor, SBECW

**Outcome of Value Added Course (VAC) :At the end of Course ,Students can able to**

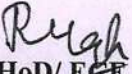
- Learn the basics of electronics, including key functionalities and requirements.
- Recall the basics of sensors, its functioning.
- Apply to the design and analysis of electronic circuits.
- Execute basic and advanced assembly language programs.
- Evaluate routing strategies for signal paths.
- Emphasize their role in modern electronic systems and embedded applications.
- Illustrate how fundamental electronics concepts influence PCB designing.

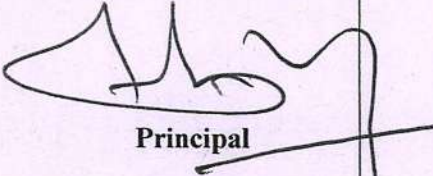
No. of students successfully completed the VAC course is **40 Students** based on the following Assessment process.


### Assessment Process

- Students, securing **more than 60% on total score** and secured more than **75%** in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 \*Attendance in VAC out of 100 percentage + 0.5 \*Test mark in VAC out of 100 marks)

  
VAC Co-Ordinator

  
HoD/EEE  
HOD / ECE

  
Principal

  
Dr. **S.THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
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PUDUKKOTTAI - 622 303

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PUDUKKOTTAI - 622 303

Dr. **S.THILAGAVATHI M.E., Ph**  
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GSTIN : 33AAF6412A1Z8

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Web : www.indiguard.in

Email : indiguard@gmail.com

Nr : 3/365 WEST STREET, KOLLANGARAI, NADUR POST, THANJAVUR - 614904

Date: 05/08/2023

**TO WHOMSOEVER IT MAY CONCERN**

*This is to certify that Mr/Ms. **DHANYASHREE A**, (Reg.No. **912621106003**) Student of Department of Electronics and Communication Engineering, **SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, KAIKKURICHI, PUDUKKOTTAI - 622 303** has successfully completed an Industry Oriented Value Added Training in the field of **FOUNDATIONAL ELECTRONICS AND PCB DESIGNING** using fashionable PCB Software from **31/07/2023** to **05/08/2023** Under the guidance of **Dr.M.Vijayakumar**, Senior R&D Manager.*

*During the period of his/her Value Added Training program with us, he/she had been exposed to different processes and was found diligent, hard working and inquisitive.*

*We wish him/her every success in his/her life and carrier.*

**Certificate Number: IGS/SBECW /VATRG / PCB / 082023 /103.**



*For INDIGUARD SYSTEMS PRIVATE LIMITED.*

*M. A. T.  
05/08/23*

*Authorized Signature*

**Mobile : 94880 12038 Web : www.indiguard.in**

**Dr. S.THILAGAVATHI M.E., Ph.D.**  
PRINCIPAL  
SRI BHARATHI ENGINEERING



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)  
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## Report on Value Added Course

Title: **Data Science with Machine Learning**

Resource Person: **Ms. CHANDANA.M**  
Data Analyst,  
Techvolt Software Private Limited,  
Coimbatore.

Date of conduct from : 01.04.2024 To: 05.04.2024 Duration: **30 Hours**

Organized Department : **Electronics and Communication Engineering**

Participant Year: 2/3 /4 Semester: **EVEN** No. of Students Registered : **56**

Venue: **Auditorium, Second Floor, SBECW**

**Outcome of Value Added Course (VAC) :At the end of Course ,Students can able to**

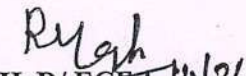
- Understanding of data exploration techniques to identify patterns and anomalies and we learned about how to preprocess raw data set.
- Proficiency in basic satisfied methods for data analysis, application of statistical tests to draw insights from data.
- Capability to build machine learning models using python libraries in Google colab.
- Proficiency in creating informative and visually appealing data visualization using tools like Jupiter notebook.

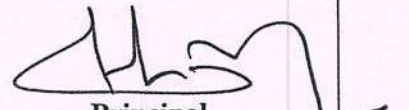
No. of students successfully completed the VAC course is **56 Students** based on the following Assessment process.

### **Assessment Process**

- Students, securing **more than 60% on total score** and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 \*Attendance in VAC out of 100 percentage + 0.5 \*Test mark in VAC out of 100 marks)

  
VAC Coordinator

  
HoD/ ECE  
HOD / ECE

  
Principal  
PRINCIPAL

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

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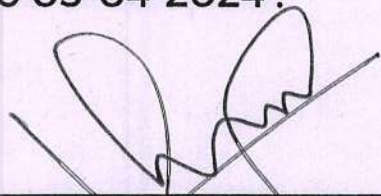
In Association with

**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

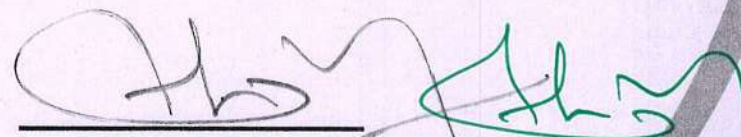


## CERTIFICATE

This is to Certify that C. BHUVANESWARI , III year ECE  
of Sri Bharathi Engineering College for Women has attended a Value Added Course  
on "Data Science with Machine Learning" Offered by Techvolt Software Pvt .Ltd., from  
01-04-2024 to 05-04-2024 .

  
Authorized signatory  
Techvolt Software Pvt.Ltd  
Coimbatore.



  
Principal  
SBECW  
Kaikkurichi, Pudukkottai  
Dr. S. THILAGAVATHI M.E., P  
PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pud



8428 983 975



[www.techvoltcoimbatore.com](http://www.techvoltcoimbatore.com)

# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)  
Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## Report on Value Added Course

Title: FOUNDATIONAL ELECTRONICS AND PCB DESIGNING

Resource Person:

Dr.M.VIJAYAKUMAR,  
R&D Manager,  
No.3/365 West Street,Thanjavur-614904.  
Tamil Nadu .

Date of conduct from : 31.07.2023 To: 05.08.2023 Duration: 36 Hours

Organized Department : Electrical and Electronics Engineering

Participant Year: 3 &4 Semester: ODD No. of Students Registered : 08

Venue: Seminar Hall, Ground Floor, SBECW

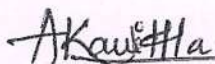
**Outcome of Value Added Course (VAC) :At the end of Course ,Students can able to**

- Learn the basics of electronics, including key functionalities and requirements.
- Recall the basics of sensors, its functioning.
- Apply to the design and analysis of electronic circuits.
- Execute basic and advanced assembly language programs.
- Evaluate routing strategies for signal paths.
- Emphasize their role in modern electronic systems and embedded applications.
- Illustrate how fundamental electronics concepts influence PCB designing.

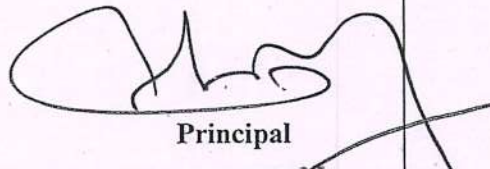
No. of students successfully completed the VAC course is 08 Students based on the following Assessment process.

### Assessment Process

- Students, securing **more than 60% on total score** and secured more than **75%** in attendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 \*Attendance in VAC out of 100 percentage + 0.5 \*Test mark in VAC out of 100 marks)

  
VAC Co-Ordinator

  
HoD/ EEE  
HOD / EEE

  
Principal

**PRINCIPAL**

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

**PRINCIPAL**  
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Mobile : 94880 12038  
Web : www.indiguard.in  
Email : indiguard@gmail.com

Nr : 3/365 WEST STREET, KOLLANGARAI, NADUR POST, THANJAVUR - 614904

Date: 05/08/2023

**TO WHOMSOEVER IT MAY CONCERN**

*This is to certify that Mr/Ms. **GOKULAPRAVEENA A**, (Reg.No. 912621105001) Student of Department of Electrical and Electronics Engineering, SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN, KAIKKURICHI, PUDUKKOTTAI - 622 303 has successfully completed an Industry Oriented Value Added Training in the field of FOUNDATIONAL ELECTRONICS AND PCB DESIGNING using fashionable PCB Software from 31/07/2023 to 05/08/2023 Under the guidance of Er.V.Iyyanar, Senior R&D Engineer.*

*During the period of his/her Value Added Training program with us, he/she had been exposed to different processes and was found diligent, hard working and inquisitive.*

*We wish him/her every success in his/her life and carrier.*

**Certificate Number: IGS/SBECW /VATRG / PCB / 082023 /123.**



For INDIGUARD SYSTEMS PRIVATE LIMITED.

M. [Signature]

05/08/23

Dr. S. THILAGAVATHI M.E., Ph.D. Authorized Signature

PRINCIPAL

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

Kaikkurichi - 622 303, Pudukkottai

Mobile : 94880 12038

Web : www.indiguard.in

# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India  
(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

## Report on Value Added Course

Title: ENERGY FORECASTING WITH DATA ANALYTICS

Resource Person: Ms.G.Pirathima, Data Analyst,  
Techvolt Software Pvt Ltd, #28, Thacil Centre , 2<sup>nd</sup> Floor, Raja Annamalai Road,  
Saibaba Colony , Coimbatore-641011.

Date of conduct from : 01.04.2024 To: 05.04.2024  
(except Thursday 04.05.2024) Duration: 30 Hours

Organized Department : ELECTRICAL AND ELECTRONICS ENGINEERING

Participant Year: 2/ 3 /4 Semester: EVEN No. of Students Registered : 17

Venue: Seminar Hall-2,SBECW

### Outcome of Value Added Course (VAC)


At the end of the Course, Students can able to

- Learn the importance of energy forecasting in optimizing resource allocation and decision-making processes.
- Comprehend different types of energy data and their characteristics.
- Explain various forecasting techniques and models.
- Implement the energy forecasting algorithms using data analytics tools.
- Discuss the applications of energy forecasting in the context of electrical systems and renewable energy integration.
- Learned the implementation of forecasting models using Python and MATLAB.

No. of students successfully completed the VAC course is 17 students based on the following assessment process.

### Assessment Process

- Students, who are securing **more than 60% on total score** and secured more than 60% in attendance is eligible to receive the certificate for the VAC course conducted.
- Total Score = (0.5 \*Attendance in VAC out of 100 percentage + 0.5 \*Test mark in VAC out of 100 marks)

  
VAC Coordinator

  
HoD/ EEE  
HOD / EEE

  
Principal  
PRINCIPAL

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

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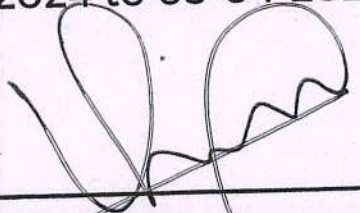
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**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**

## CERTIFICATE




This is to Certify that Ms. PRASANNA P II - EEE  
of Sri Bharathi Engineering College for Women has attended a Value Added Course  
on "Energy Forecasting with Data Analytics" Offered by Techvolt Software Pvt. Ltd.,  
from 01-04-2024 to 05-04-2024.

  
Authorized signatory  
Techvolt Software Pvt.Ltd  
Coimbatore.



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

  
Principal  
SBECW  
Kaikkurichi, Pudukkottai



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