



# 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



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

<b>Criteria 2</b>	<b>Teaching-Learning and Evaluation</b>	<b>350</b>
-------------------	---	------------

## **Key Indicator-2.6 Student Performances and Learning Outcome (90)**

*2.6.1 Programme Outcomes (POs) and Course Outcomes (COs) for all programmes offered by the institution are stated and displayed on website*

### COURSE OUTCOMES AND PROGRAMME OUTCOMES

DEPARTMENT OF  
ELECTRICAL AND ELECTRONICS  
ENGINEERING  
R2021



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
KAIKKURICHI, PUDUKKOTTAI - 622 303**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**I YEAR/I SEMESTER**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
HS3152	Professional English - I	<b>C101.1:</b> Use appropriate words in a professional context.
		<b>C101.2:</b> Explain the basic grammatic structures and use them in right context.
		<b>C101.3:</b> Describe the denotative and connotative meanings of technical texts
		<b>C101.4:</b> Summarize about the definitions, descriptions, narrations and essays on various topics
		<b>C101.5:</b> Apply language effectively in professional contexts
		<b>C101.6:</b> Discuss the importance of read and write complex texts, summaries, articles, blogs, definitions, essays and user manuals.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C101.1	2	2	2	2	2	2	2	2	2	2	-	2	-	-	-
C101.2	2	2	2	2	2	2	2	2	2	2	-	2	-	-	-
C101.3	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101.4	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
C101.5	2	2	2	2	-	2	2	2	2	2	-	2	-	-	-
C101.6	2	2	2	2	2	2	2	2	2	2	2	2	-	-	-
<b>C101</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

PRINCIPAL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
Kaikkurichi - 622 303, Pudukkottai Dt

**HOD EEE**  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303,

\*3-High correlation; 2-Medium correlation; 1-Low correlation; - No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

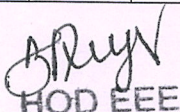
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
MA3151	MATRICES AND CALCULUS	<b>C102.1:</b> Use the matrix algebra methods for solving practical problems.
		<b>C102.2:</b> Apply differential calculus tools in solving various application problems.
		<b>C102.3:</b> Describe the partial differential equations with initial and Lagrange's method by using certain techniques with engineering applications.
		<b>C102.4:</b> Carry out the differentiation to solve maxima and minima problems.
		<b>C102.5:</b> Explain different methods of integration in solving practical problems.
		<b>C102.6:</b> Determine multiple integral ideas in solving areas, volumes and other practical problems.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C102.1	3	3	2	2	-	-	-	-	-	1	-	1	-	2	-
C102.2	3	3	2	2	-	-	-	-	-	1	-	1	-	2	-
C102.3	3	3	2	2	-	-	-	-	-	1	-	1	-	2	-
C102.4	3	3	2	2	-	-	-	-	-	1	-	1	-	2	-
C102.5	3	3	2	2	-	-	-	-	-	1	-	1	-	2	-
C102.6	3	3	2	2	-	-	-	-	-	1	-	1	-	2	-
<b>C102</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	<b>1</b>	-	<b>1</b>	-	<b>2</b>	-

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

  
**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; 0-No correlation



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI - 622 303

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### REGULATION 2021

#### B.E. EEE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
PH3151	ENGINEERING PHYSICS	<b>C103.1:</b> Acknowledge the importance of mechanics.
		<b>C103.2:</b> Express their knowledge in electromagnetic waves.
		<b>C103.3:</b> Demonstrate a strong foundational knowledge in oscillations.
		<b>C103.4:</b> Establish a strong foundational knowledge in fibre optics and laser.
		<b>C103.5:</b> Comprehend the importance of quantum physics.
		<b>C103.6:</b> Comprehend and apply quantum mechanical principles towards the formation of energy bands.

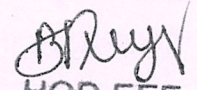
#### CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C103.1	3	3	2	1	-	1	1	-	-	1	-	1	-	-	-
C103.2	3	3	2	1	-	1	1	-	-	1	-	-	-	-	-
C103.3	3	3	-	-	-	-	-	-	-	1	-	-	-	-	-
C103.4	3	3	2	-	-	1	1	-	-	1	-	-	-	-	-
C103.5	3	3	2	-	-	1	1	-	-	1	-	-	-	-	-
C103.6	3	3	2	1	-	1	1	-	-	1	-	1	-	-	-
<b>C103</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

SRI BHARATHI ENGINEERING

KAIKKURICHI - 622 303, Pudukkottai Dt.

  
HOD EEE  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI - 622 303

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### REGULATION 2021

#### B.E. EEE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
CY8151	ENGINEERING CHEMISTRY	<b>C104.1:</b> Describe the quality of water from quality parameter data and propose suitable treatment methodologies to treat water.
		<b>C104.2:</b> Apply basic concepts of nanoscience and nanotechnology in designing the synthesis of nanomaterials for engineering and technology applications.
		<b>C104.3:</b> Use the knowledge of phase rule and composites for material selection requirements.
		<b>C104.4:</b> Explain the recommend suitable fuels for engineering processes and applications.
		<b>C104.5:</b> Discuss the different forms of energy resources and apply them for suitable applications in energy sectors.
		<b>C104.6:</b> Determine the importance of engineering materials, fuels, energy sources and water treatment techniques will facilitate better understanding of engineering processes and applications for further learning.

#### CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C104.1	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-
C104.2	3	2	2	1	-	1	1	-	-	-	-	-	-	-	-
C104.3	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
C104.4	3	2	2	-	-	1	1	-	-	-	-	-	-	-	-
C104.5	3	2	2	-	-	1	1	-	-	-	-	-	-	-	-
C104.6	3	2	2	1	-	1	1	-	-	-	-	1	-	-	-
<b>C104</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

PRINCIPAL

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

Kaikkurichi - 622 303, Pudukkottai Dt.

HOD EEE

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

Kaikkurichi,

PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; - No correlation



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI - 622 303

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### REGULATION 2021

#### B.E. EEE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3151	PROBLEM SOLVING AND PYTHON PROGRAMMING	<b>C105.1:</b> Develop algorithmic solutions to simple computational problems.
		<b>C105.2:</b> Design and execute simple Python programs.
		<b>C105.3:</b> Write simple Python programs using conditionals and loops for solving problems.
		<b>C105.4:</b> Describe a Python program into functions.
		<b>C105.5:</b> Discuss compound data using Python lists, tuples, dictionaries etc.
		<b>C105.6:</b> Explain the importance of Read and write data from/to files in Python programs.

#### CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C105.1	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.2	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.3	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.4	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.5	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
C105.6	3	3	2	2	2	-	-	-	2	2	2	-	3	-	1
<b>C105</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>1</b>

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

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

HOD EEE

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
PUDUKKOTTAI - 622 303.

\*3-High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation!



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

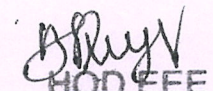
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3152	HERITAGE OF TAMILS	<b>C106.1:</b> Discuss the Tamil language and literature.
		<b>C106.2:</b> Explain about the modern-art sculpture.
		<b>C106.3:</b> Illustrate the folk and martial arts.
		<b>C106.4:</b> Describe the Thinai concepts of Tamil.
		<b>C106.5:</b> Summarize the contribution of Tamil in Indian culture.
		<b>C106.6:</b> Define the role of siddha medicine.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C106.1	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.2	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.3	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.4	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.5	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C106.6	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
<b>C106</b>	-	-	-	-	-	<b>3</b>	<b>3</b>	<b>2</b>	-	<b>2</b>	-	<b>2</b>	-	-	-

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2- Medium correlation; 1-Low correlation; '- ' No correlation





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

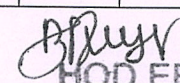
Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3171	PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY	<b>C107.1:</b> Develop algorithmic solutions to simple computational problems
		<b>C107.2:</b> Design and execute simple Python programs.
		<b>C107.3:</b> Implement programs in Python using conditionals and loops for solving problems.
		<b>C107.4:</b> Describe functions to decompose a Python program.
		<b>C107.5:</b> Explain compound data using Python data structures.
		<b>C107.6:</b> Utilize Python packages in developing software applications.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C107.1	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.2	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.3	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.4	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.5	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
C107.6	3	3	2	2	2	-	-	-	2	2	2	2	3	-	2
<b>C107</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>-</b>	<b>2</b>

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

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI - 622 303

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

## REGULATION 2021

### B.E. EEE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
BS3171	Physics and Chemistry Laboratory	<b>C108.1:</b> Explain the functioning of various physics laboratory equipment
		<b>C108.2:</b> Use graphical models to analyze laboratory data.
		<b>C108.3:</b> Apply mathematical models as a medium for quantitative reasoning and describing physical reality.
		<b>C108.4:</b> Describe products and processes and explain their uses and purposes clearly and accurately C Access, process and analyze scientific information.
		<b>C108.5:</b> Solve problems individually and collaboratively.
		<b>C108.6:</b> Determine the amount of metal ions through volumetric and spectroscopic techniques.

### CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C108.1	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-
C108.2	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-
C108.3	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-
C108.4	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-
C108.5	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-
C108.6	3	3	3	2	2	-	-	-	2	2	-	-	2	-	-
<b>C108</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>

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

PRINCIPAL

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

Kaikkurichi - 622 303, Pudukkottai Dt.

HOD EEE

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

KAIKKURICHI,  
PUDUKKOTTAI - 622 303,

\*3-High correlation; 2-Medium correlation; 1-Low correlation; - No correlation



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

KAIKKURICHI, PUDUKKOTTAI - 622 303

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### REGULATION 2021

### B.E. EEE - COURSE OUTCOMES (CO)

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3172	English Laboratory	<b>C109.1:</b> Describe and comprehend general as well as complex academic information.
		<b>C109.2:</b> Explain different points of view in a discussion.
		<b>C109.3:</b> Explain formal and informal communicative contexts.
		<b>C109.4:</b> Describe products and processes and explain their uses and purposes clearly and accurately.
		<b>C109.5:</b> Express their opinions effectively in both formal and informal discussions.
		<b>C109.6:</b> Use language efficiently in expressing their opinions via various media.

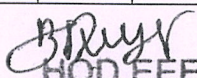
### CO-PO MAPPING

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C109.1	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C109.2	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C109.3	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C109.4	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C109.5	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C109.6	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
<b>C109</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	-	-	-

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

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

Kaikkurichi - 622 303, Pudukkottai Dt.

  
HOD EEE  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**I YEAR/II SEMESTER**

**REGULATION 2021**

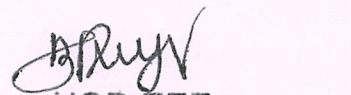
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
HS3252	Professional English - II	<b>C110.1:</b> Compare and contrast products and ideas in technical texts.
		<b>C110.2:</b> Identify and report cause and effects in events, industrial processes through technical texts.
		<b>C110.3:</b> Analyse problems in order to arrive at feasible solutions and communicate them in the written format.
		<b>C110.4:</b> Explain the importance of present their ideas and opinions in a planned and logical manner.
		<b>C110.5:</b> Design effective resumes in the context of job search.
		<b>C110.6:</b> Demonstrate an understanding of job applications and interviews for internship and placements.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C110.1	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.2	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.3	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.4	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.5	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
C110.6	3	3	3	3	2	2	2	2	2	2	2	2	-	-	-
<b>C110</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

  
**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
MA3251	STATISTICS AND NUMERICAL METHODS	<b>C111.1:</b> Apply the concept of testing of hypothesis for small and large samples in real life problems.
		<b>C111.2:</b> Apply the basic concepts of classifications of design of experiments in the field of agriculture.
		<b>C111.3:</b> Describe the numerical techniques of interpolation in various intervals.
		<b>C111.4:</b> Apply the numerical techniques of differentiation and integration for engineering problems.
		<b>C111.5:</b> Explain various techniques and methods for solving first and second order ordinary differential equations.
		<b>C111.6:</b> Describe the partial and ordinary differential equations with initial and boundary conditions by using certain techniques with engineering applications.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C111.1	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-
C111.2	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-
C111.3	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-
C111.4	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-
C111.5	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-
C111.6	3	3	3	2	-	-	-	-	-	1	-	1	-	2	-
<b>C111</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	-	-	-	-	-	<b>1</b>	-	<b>1</b>	-	<b>2</b>	-

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

**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

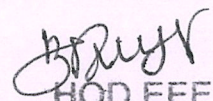
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
PH3202	Physics for Electrical Engineering	<b>C112.1:</b> Illustrate the basics of dielectric materials and insulation.
		<b>C112.2:</b> Gain knowledge on the electrical and magnetic properties of materials and their applications
		<b>C112.3:</b> Explain clearly of semiconductor physics and functioning of semiconductor devices
		<b>C112.4:</b> Describe the optical properties of materials.
		<b>C112.5:</b> Discuss the working principles of various optical devices.
		<b>C112.6:</b> Appreciate the importance of nanotechnology and nanodevices.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C112.1	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-
C112.2	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-
C112.3	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-
C112.4	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-
C112.5	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-
C112.6	3	2	1	1	-	1	-	-	-	1	-	1	2	-	-
<b>C112</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	-	<b>1</b>	-	-	-	<b>1</b>	-	<b>1</b>	<b>2</b>	-	-

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2- Medium correlation; 1-Low correlation; ‘-’ No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
BE3255	BASIC CIVIL AND MECHANICAL ENGINEERING	<b>C113.1:</b> Observe the profession of Civil and Mechanical engineering.
		<b>C113.2:</b> Summarize the planning of building, infrastructure and working of Machineries.
		<b>C113.3:</b> Apply the knowledge gained in respective discipline
		<b>C113.4:</b> Illustrate the ideas of Civil Engineering applications.
		<b>C113.5:</b> Describe the ideas of Mechanical Engineering applications.
		<b>C113.6:</b> Appraise the material, Structures, machines and energy.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C113.1	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-
C113.2	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-
C113.3	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-
C113.4	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-
C113.5	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-
C113.6	2	2	1	1	-	-	1	-	1	1	-	1	-	-	-
<b>C113</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>

*(Signature)*  
**Dr. S.THILAGAVATHI M.E., Ph.D.,**  
 PRINCIPAL

SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI - 622 303, Pudukkottai Dt.

*(Signature)*  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**REGULATION 2021**

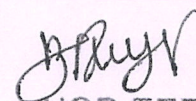
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3251	ENGINEERING GRAPHICS	<b>C114.1:</b> Use BIS conventions and specifications for engineering drawing.
		<b>C114.2:</b> Construct the conic curves, involutes and cycloid.
		<b>C114.3:</b> Solve practical problems involving projection of lines.
		<b>C114.4:</b> Draw the orthographic, isometric and perspective projections of simple solids.
		<b>C114.5:</b> Draw the development of simple solids.
		<b>C114.6:</b> Draw engineering curves

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C114.1	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-
C114.2	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-
C114.3	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-
C114.4	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-
C114.5	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-
C114.6	3	2	2	-	2	-	2	-	-	2	-	2	2	2	-
<b>C114</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>

  
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
 PRINCIPAL  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI, 622 303, PUDUKKOTTAI, TAMIL NADU

  
**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

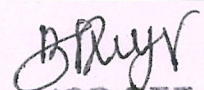
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3251	ELECTRIC CIRCUIT ANALYSIS	<b>C115.1:</b> Explain circuit's behavior using circuit laws.
		<b>C115.2:</b> Apply mesh analysis/ nodal analysis / network theorems to determine behavior of the given DC and AC circuit.
		<b>C115.3:</b> Compute the transient response of first order and second order systems to step and sinusoidal input.
		<b>C115.4:</b> Compute power, line/ phase voltage and currents of the given three phase circuit.
		<b>C115.5:</b> Explain the frequency response of series and parallel RLC circuits.
		<b>C115.6:</b> Explain the behavior of magnetically coupled circuits.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C115.1	3	3	3	3	2	-	2	1	-	1	-	1	3	3	3
C115.2	3	3	3	3	2	-	2	1	-	1	-	1	3	3	3
C115.3	3	3	3	3	2	-	2	1	-	1	-	1	3	3	3
C115.4	3	3	3	3	2	-	2	1	-	1	-	1	3	3	3
C115.5	3	3	3	3	2	-	2	1	-	1	-	1	3	3	3
C115.6	3	3	3	3	2	-	2	1	-	1	-	1	3	3	3
<b>C115</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation, 2-Medium correlation, 1-Low correlation, 0-No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

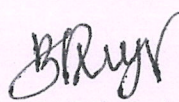
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3252	TAMILS AND TECHNOLOGIES	<b>C116.1:</b> Explain about the weaving and pottery technology in Tamilnadu.
		<b>C116.2:</b> Describe about the design and construction technology in Tamilnadu.
		<b>C116.3:</b> Discuss about the manufacturing technology in Tamilnadu.
		<b>C116.4:</b> Illustrate the agriculture and irrigation technology in Tamilnadu.
		<b>C116.5:</b> Define the growth of science in Tamil.
		<b>C116.6:</b> Learn the contribution of the Tamils to Indian culture.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C116.1	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.2	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.3	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.4	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.5	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
C116.6	-	-	-	-	-	3	3	2	-	2	-	2	-	-	-
<b>C116</b>	-	-	-	-	-	<b>3</b>	<b>3</b>	<b>2</b>	-	<b>2</b>	-	<b>2</b>	-	-	-

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303,

\*3-High correlation; 2- Medium correlation; 1-Low correlation; '- No correlation

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



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

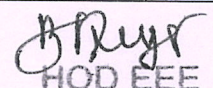
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3271	ENGINEERING PRACTICES LABORATORY	<b>C118.1:</b> Draw pipe line plan; lay and connect various pipe fittings used in common household plumbing work; Saw; plan;
		<b>C118.2:</b> Explain various joints in wood materials used in common household wood work.
		<b>C118.3:</b> Design various wire electrical joints in common household electrical wire work.
		<b>C118.4:</b> Weld various joints in steel plates using arc welding work; Machine various simple processes like turning, drilling, tapping in parts; Assemble simple mechanical assembly of common household equipments.
		<b>C118.5:</b> Solder and test simple electronic circuits; Assemble and test simple electronic components on PCB.
		<b>C118.6:</b> Design a tray out of metal sheet using sheet metal work.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C118.1	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1
C118.2	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1
C118.3	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1
C118.4	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1
C118.5	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1
C118.6	3	2	2	2	-	2	2	-	2	2	-	1	2	1	1
<b>C118</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation

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



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3271	ELECTRIC CIRCUITS LABORATORY	<b>C119.1:</b> Use simulation and experimental methods to verify the fundamental electrical laws for the given DC/AC circuit.
		<b>C119.2:</b> Develop simulation and experimental methods to verify the various electrical theorems (Superposition, Thevenin, Norton and maximum power transfer) for the given DC/AC Circuit.
		<b>C119.3:</b> Design the transient behavior of the given RL/RC/RLC circuit using simulation and experimental methods.
		<b>C119.4:</b> Analyze frequency response of the given series RLC circuit using simulation and experimentation methods.
		<b>C119.5:</b> Analyze frequency response of the given parallel RLC circuit using simulation and experimentation methods.
		<b>C119.6:</b> Execute the performance of the given three-phase circuit using simulation and experimental methods.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C119.1	3	3	3	3	3	-	2	2	2	2	-	2	3	3	2
C119.2	3	3	3	3	3	-	2	2	2	2	-	2	3	3	2
C119.3	3	3	3	3	3	-	2	2	2	2	-	2	3	3	2
C119.4	3	3	3	3	3	-	2	2	2	2	-	2	3	3	2
C119.5	3	3	3	3	3	-	2	2	2	2	-	2	3	3	2
C119.6	3	3	3	3	3	-	2	2	2	2	-	2	3	3	2
<b>C119</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>

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

**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; - No correlation

SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurchi - 622 303, Pudukkottai Dt.



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3272	COMMUNICATION LABORATORY	<b>C120.1:</b> Speak effectively in group discussions held in formal/semi formal contexts.
		<b>C120.2:</b> Discuss, analyse and present concepts and problems from various perspectives to arrive at suitable solutions.
		<b>C120.3:</b> Write emails, letters and effective job applications.
		<b>C120.4:</b> Write critical reports to convey data and information with clarity and precision.
		<b>C120.5:</b> Give appropriate instructions and recommendations for safe execution of tasks.
		<b>C120.6:</b> Discuss the safety issues about electrical devices.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C120.1	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-
C120.2	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-
C120.3	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-
C120.4	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-
C120.5	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-
C120.6	3	3	3	3	3	3	3	3	3	3	3	3	-	-	-
<b>C120</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

PRINCIPAL  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurichi - 622 303, Pudukkottai Dt.

*[Signature]*  
 HOD EEE

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

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '- No correlation




**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

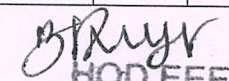
**II YEAR/III SEMESTER**  
**REGULATION 2021**  
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
MA3303	PROBABILITY AND COMPLEX FUNCTIONS	<b>C201.1:</b> Acquire the required skill to apply the statistical tools in engineering problems.
		<b>C201.2:</b> Demonstrates the basic concepts of probability and random variables.
		<b>C201.3:</b> Explain the basic concepts of two dimensional random variables.
		<b>C201.4:</b> Develop an understanding of the standard techniques of complex variable theory in particular analytic function and its mapping property.
		<b>C201.5:</b> Comprehend the complex integration techniques and contour integration techniques which can be used in real integrals.
		<b>C201.6:</b> Acquaint with the Differential Equations which are significantly used in engineering problems.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C201.1	3	3	2	2	-	-	-	-	-	2	-	2	-	-	-
C201.2	3	3	2	2	-	-	-	-	-	2	-	2	-	-	-
C201.3	3	3	2	2	-	-	-	-	-	2	-	2	-	-	-
C201.4	3	3	2	2	-	-	-	-	-	2	-	2	-	-	-
C201.5	3	3	2	2	-	-	-	-	-	2	-	2	-	-	-
C201.6	3	3	2	2	-	-	-	-	-	2	-	2	-	-	-
<b>C201</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	-	-	-	-	-	<b>2</b>	-	<b>2</b>	-	-	-

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

  
**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '- No correlation

SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurchi - 622 303, Pudukkottai Dt.



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

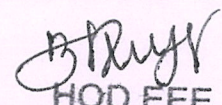
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3301	ELECTROMAGNETIC FIELDS	<b>C202.1:</b> Discuss the basic mathematical concepts related to Gradient, Divergence, and Curl operations on electromagnetic vector fields.
		<b>C202.2:</b> Identify the electromagnetic sources and their effects
		<b>C202.3:</b> Compute and analyze electrostatic fields, electric potential, energy density along with their applications.
		<b>C202.4:</b> Determine and examine magneto static fields, magnetic flux density, vector potential along with their applications.
		<b>C202.5:</b> Describe different methods of emf generation and Maxwell's equations.
		<b>C202.6:</b> Explain the concept of electromagnetic waves and characterizing parameters.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C202.1	3	3	2	2	-	2	2	-	-	2	-	1	3	2	1
C202.2	3	3	2	2	-	2	2	-	-	2	-	1	3	2	1
C202.3	3	3	2	2	-	2	2	-	-	2	-	1	3	2	1
C202.4	3	3	2	2	-	2	2	-	-	2	-	1	3	2	1
C202.5	3	3	2	2	-	2	2	-	-	2	-	1	3	2	1
C202.6	3	3	2	2	-	2	2	-	-	2	-	1	3	2	1
<b>C202</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

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

  
**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 PUDUKKOTTAI - 622 303,

\*3-High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

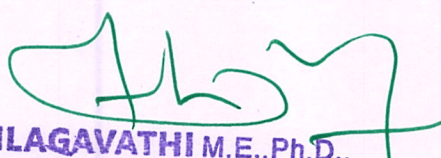
**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3302	DIGITAL LOGIC CIRCUITS	<b>C203.1:</b> Acquire the fundamentals of combinational and sequential digital circuits.
		<b>C203.2:</b> Comprehend various number systems and to simplify the mathematical expressions using Boolean functions word problems.
		<b>C203.3:</b> Implement the combinational circuits using Gates' and MSI Devices
		<b>C203.4:</b> Design the various synchronous circuits using Flip Flops.
		<b>C203.5:</b> Device the asynchronous sequential circuits and programmable logic devices
		<b>C203.6:</b> Compute digital simulation techniques for development of application oriented logic circuit.

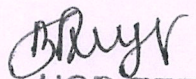
**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C203.1	3	3	3	2	2	-	2	-	-	2	-	2	3	2	1
C203.2	3	3	3	2	2	-	2	-	-	2	-	2	3	2	1
C203.3	3	3	3	2	2	-	2	-	-	2	-	2	3	2	1
C203.4	3	3	3	2	2	-	2	-	-	2	-	2	3	2	1
C203.5	3	3	3	2	2	-	2	-	-	2	-	2	3	2	1
C203.6	3	3	3	2	2	-	2	-	-	2	-	2	3	2	1
<b>C203</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>

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

PRINCIPAL

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

  
 HOD EEE

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

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

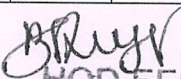
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EC3301	ELECTRON DEVICES AND CIRCUITS	<b>C204.1:</b> Comprehend the structure of basic electronic devices.
		<b>C204.2:</b> Explain about the active and passive circuit elements.
		<b>C204.3:</b> Describe the operation and applications of transistor like BJT and FET.
		<b>C204.4:</b> Illustrate the characteristics of amplifier gain and frequency response.
		<b>C204.5:</b> Explain the characteristics of MOS based cascade and differential amplifier.
		<b>C204.6:</b> Demonstrate the required functionality of positive and negative feedback systems.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C204.1	3	3	3	2	2	-	2	-	-	2	-	1	3	1	1
C204.2	3	3	3	2	2	-	2	-	-	2	-	1	3	1	1
C204.3	3	3	3	2	2	-	2	-	-	2	-	1	3	1	1
C204.4	3	3	3	2	2	-	2	-	-	2	-	1	3	1	1
C204.5	3	3	3	2	2	-	2	-	-	2	-	1	3	1	1
C204.6	3	3	3	2	2	-	2	-	-	2	-	1	3	1	1
<b>C204</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlations; 2-Medium correlations; 1-Low correlation; \*No correlation

COLLEGE FOR WOMEN  
 Kaikkurichi - 622 303, Pudukkottai Dt.



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

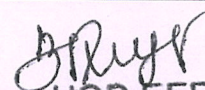
Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3303	ELECTRICAL MACHINES - I	<b>C205.1:</b> Apply the laws governing the electromechanical energy conversion for singly and multiple excited systems.
		<b>C205.2:</b> Explain the construction and working principle of DC machines.
		<b>C205.3:</b> Interpret various characteristics of DC machines.
		<b>C205.4:</b> Compute various performance parameters of the machine, by conducting suitable tests.
		<b>C205.5:</b> Draw the equivalent circuit of transformer and predetermine the efficiency and regulation.
		<b>C205.6:</b> Describe the working principle of auto transformer, three phase transformer with different types of connections.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C205.1	3	3	2	2	-	-	2	-	-	2	-	1	3	2	2
C205.2	3	3	2	2	-	-	2	-	-	2	-	1	3	2	2
C205.3	3	3	2	2	-	-	2	-	-	2	-	1	3	2	2
C205.4	3	3	2	2	-	-	2	-	-	2	-	1	3	2	2
C205.5	3	3	2	2	-	-	2	-	-	2	-	1	3	2	2
C205.6	3	3	2	2	-	-	2	-	-	2	-	1	3	2	2
<b>C205</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>2</b>

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

PRINCIPAL  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurichi - 622 303, Pudukkottai Dt.

  
**HOD EEE**

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

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS3353	C PROGRAMMING AND DATA STRUCTURES	<b>C206.1:</b> Develop C programs for any real world/technical application.
		<b>C206.2:</b> Apply advanced features of C in solving problems.
		<b>C206.3:</b> Write functions to implement linear and non-linear data structure operations.
		<b>C206.4:</b> Suggest and use appropriate linear/non-linear data structure operations for solving a given problem.
		<b>C206.5:</b> Appropriately use sort and search algorithms for a given application.
		<b>C206.6:</b> Apply appropriate hash functions that result in a collision free scenario for data storage and retrieval.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C206.1	2	2	2	2	2	1	1	-	1	1	1	1	-	2	2
C206.2	2	2	2	2	2	-	-	-	1	1	1	1	-	2	2
C206.3	2	2	2	2	2	-	-	-	1	1	1	1	-	2	2
C206.4	2	2	2	2	2	-	-	-	1	1	1	1	-	2	2
C206.5	2	2	2	2	2	-	-	-	1	1	1	1	-	2	2
C206.6	2	2	2	2	2	1	1	-	1	1	1	1	-	2	2
<b>C206</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>2</b>	<b>2</b>

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

PRINCIPAL

SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN

Kaikkurichi - 622 303, Pudukkottai Dt.

HOD EEE

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

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

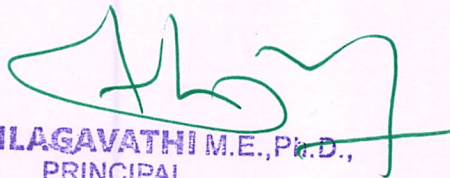
**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EC3311	ELECTRONIC DEVICES AND CIRCUITS LABORATORY	<b>C207.1:</b> Analyze the characteristics of PN, Zener diode and BJT in CE,CC,CB configurations Experimentally.
		<b>C207.2:</b> Examine the characteristics of JFET and UJT experimentally.
		<b>C207.3:</b> Demonstrate frequency response characteristics of a Common Emitter amplifier Experimentally.
		<b>C207.4:</b> Discover the characteristics of RC phase shift and LC oscillators experimentally.
		<b>C207.5:</b> Calculate the frequency and phase angle using CRO experimentally.
		<b>C207.6:</b> Analyze the frequency response characteristics of passive filters experimentally.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C207.1	3	3	3	3	2	-	-	-	2	2	2	2	3	1	1
C207.2	3	3	3	3	2	-	-	-	2	2	2	2	3	1	1
C207.3	3	3	3	3	2	-	-	-	2	2	2	2	3	1	1
C207.4	3	3	3	3	2	-	-	-	2	2	2	2	3	1	1
C207.5	3	3	3	3	2	-	-	-	2	2	2	2	3	1	1
C207.6	3	3	3	3	2	-	-	-	2	2	2	2	3	1	1
<b>C207</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; - No correlation

COLLEGE FOR WOMEN  
 Kaikkurichi - 622 303, Pudukkottai Dt.



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

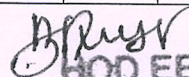
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3311	ELECTRICAL MACHINES LABORATORY-I	<b>C208.1:</b> Construct the circuit with appropriate connections for the given DC machine/transformer.
		<b>C208.2:</b> Experimentally determine the characteristics of different types of DC machines.
		<b>C208.3:</b> Demonstrate the speed control techniques for a DC motor for industrial applications.
		<b>C208.4:</b> Identify suitable methods for testing of transformer and DC machines.
		<b>C208.5:</b> Predetermine the performance parameters of transformers and DC motor.
		<b>C208.6:</b> Understand DC motor starters and 3-phase transformer connections.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C208.1	3	3	2	2	-	-	-	-	2	2	-	1	3	3	2
C208.2	3	3	2	2	-	-	-	-	2	2	-	1	3	3	2
C208.3	3	3	2	2	-	-	-	-	2	2	-	1	3	3	2
C208.4	3	3	2	2	-	-	-	-	2	2	-	1	3	3	2
C208.5	3	3	2	2	-	-	-	-	2	2	-	1	3	3	2
C208.6	3	3	2	2	-	-	-	-	2	2	-	1	3	3	2
<b>C208</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>

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

  
**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
CS3362	C PROGRAMMING AND DATA STRUCTURES LABORATORY	<b>C209.1:</b> Use different constructs of C and develop applications
		<b>C209.2:</b> Write functions to implement linear and non-linear data structure operations
		<b>C209.3:</b> Suggest and use the appropriate linear / non-linear data structure operations for a given problem
		<b>C209.4:</b> Apply appropriate hash functions that result in a collision free scenario for data storage and Retrieval
		<b>C209.5:</b> Implement Sorting algorithms for a given application
		<b>C209.6:</b> Execute Searching algorithms for a given application

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C209.1	2	2	2	2	2	1	1	-	1	1	1	1	2	2	2
C209.2	2	2	2	2	2	-	-	-	1	1	1	1	2	2	2
C209.3	2	2	2	2	2	-	-	-	1	1	1	1	2	2	2
C209.4	2	2	2	2	2	-	-	-	1	1	1	1	2	2	2
C209.5	2	2	2	2	2	1	1	-	1	1	1	1	2	2	2
C209.6	2	2	2	2	2	1	1	-	1	1	1	1	2	2	2
<b>C209</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>

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

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

*[Signature]*  
 HOD EEE

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

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3361	PROFESSIONAL DEVELOPMENT	<b>C210.1:</b> Use MS Word to create quality documents, by structuring and organizing content for their day to day technical and academic requirements
		<b>C210.2:</b> Apply MS EXCEL to perform data operations and analytics, record, retrieve data as per requirements and visualize data for ease of understanding
		<b>C210.3:</b> Prepare MS EXCEL to retrieve data as per requirements
		<b>C210.4:</b> Load MS EXCEL to visualize data for ease of understanding
		<b>C210.5:</b> Explain MS PowerPoint to create high quality academic presentations by including common tables, charts, graphs
		<b>C210.6:</b> Operate MS PowerPoint to interlinking other elements, and using media objects.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C210.1	3	2	2	2	2	-	-	-	2	2	-	2	-	-	3
C210.2	3	2	2	2	2	-	-	-	2	2	-	2	-	-	3
C210.3	3	2	2	2	2	-	-	-	2	2	-	2	-	-	3
C210.4	3	2	2	2	2	-	-	-	2	2	-	2	-	-	3
C210.5	3	2	2	2	2	-	-	-	2	2	-	2	-	-	3
C210.6	3	2	2	2	2	-	-	-	2	2	-	2	-	-	3
<b>C210</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>3</b>

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

HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; 0-No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**II YEAR/IV SEMESTER**  
**REGULATION 2021**  
**B.E. EEE - COURSE OUTCOMES (CO)**

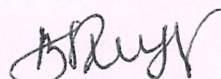
Course Code	Course Name	Course Outcome (CO) Students will be able to
GE3451	ENVIRONMENTAL SCIENCES AND SUSTAINABILITY	<b>C211.1:</b> To recognize and understand the functions of environment, ecosystems and biodiversity and their conservation.
		<b>C211.2:</b> To identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society.
		<b>C211.3:</b> To identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations.
		<b>C211.4:</b> To explain the different goals of sustainable development and apply them for suitable technological advancement and societal development.
		<b>C211.5:</b> To demonstrate the knowledge of sustainability practices and identify green materials and energy cycles.
		<b>C211.6:</b> To analyze the role of sustainable urbanization.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C211.1	3	2	-	-	-	2	2	-	-	2	-	2	-	-	-
C211.2	3	2	-	-	-	2	2	-	-	2	-	2	-	-	-
C211.3	3	2	2	-	-	2	2	-	-	2	-	2	-	-	-
C211.4	3	2	2	2	-	2	2	-	-	2	-	2	-	-	-
C211.5	3	2	2	-	-	2	2	-	-	2	-	2	-	-	-
C211.6	3	2	2	-	-	2	2	-	-	2	-	2	-	-	-
<b>C211</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

PRINCIPAL  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurichi - 622 303, Pudukkottai Dt.

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation





**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

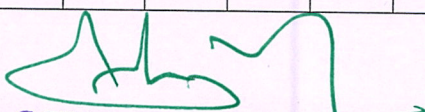
**REGULATION 2021**

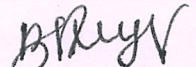
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3401	TRANSMISSION AND DISTRIBUTION	<b>C212.1:</b> Discuss the structure of power system, computation of transmission line parameters for different configurations.
		<b>C212.2:</b> Model the transmission lines to determine the line performance.
		<b>C212.3:</b> To Explain the impact of Ferranti effect and corona on line performance.
		<b>C212.4:</b> Carry out the Mechanical design of transmission lines, grounding and to recognize about the insulators in transmission system.
		<b>C212.5:</b> Design the underground cables and understand the performance analysis of underground cable.
		<b>C212.6:</b> Describe the modelling, performance analysis and modern trends in distribution system.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C212.1	3	2	2	2	-	2	2	-	-	2	-	2	3	2	1
C212.2	3	2	2	2	-	2	2	-	-	2	-	2	3	2	1
C212.3	3	2	2	2	-	2	2	-	-	2	-	2	3	2	1
C212.4	3	2	2	2	-	2	2	-	-	2	-	2	3	2	1
C212.5	3	2	2	2	-	2	2	-	-	2	-	2	3	2	1
C212.6	3	2	2	2	-	2	2	-	-	2	-	2	3	2	1
<b>C212</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>

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

  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2- Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3402	LINEAR INTEGRATED CIRCUITS	<b>C213.1:</b> Explain monolithic IC fabrication process.
		<b>C213.2:</b> Describe the fabrication of diodes, capacitance, resistance, FETs and PV Cell.
		<b>C213.3:</b> Analyze the characteristics and basic applications (inverting/non-inverting amplifier, summer, differentiator, integrator, V/I and I/V converter) of Op-Amp.
		<b>C213.4:</b> Explain circuit and applications of op-amp based instrumentation amplifier, log/antilog amplifier, analog multiplier /divider, active filters, comparators, waveform generators, A/D and D/A converters.
		<b>C213.5:</b> Discuss Functional blocks, characteristics and applications of Timer, PLL, analog multiplier ICs.
		<b>C213.6:</b> Interpret the applications of ICs in Instrumentation amplifier, fixed and variable voltage regulator, SMPS and function generator.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C213.1	2	2	2	2	2	-	2	-	-	2	-	2	3	2	1
C213.2	2	2	2	2	2	-	2	-	-	2	-	2	3	2	1
C213.3	2	2	2	2	2	-	2	-	-	2	-	2	3	2	1
C213.4	2	2	2	2	2	-	2	-	-	2	-	2	3	2	1
C213.5	2	2	2	2	2	-	2	-	-	2	-	2	3	2	1
C213.6	2	2	2	2	2	-	2	-	-	2	-	2	3	2	1
<b>C213</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>1</b>

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

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

HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; '-' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3403	MEASUREMENTS AND INSTRUMENTAION	<b>C214.1:</b> Ability to explain the fundamental art of measurement in engineering.
		<b>C214.2:</b> Ability to describe the structural elements of various instruments.
		<b>C214.3:</b> Ability to interpret the importance of bridge circuits.
		<b>C214.4:</b> Ability to generalize the various transducers and their characteristics by experiments.
		<b>C214.5:</b> Ability to discuss the smart sensors.
		<b>C214.6:</b> Ability to summarize the concept of digital instrumentation and virtual instrumentation by experiments.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C214.1	3	3	2	2	-	2	-	2	-	2	-	2	3	1	1
C214.2	3	3	2	2	-	-	-	-	-	2	-	2	3	1	1
C214.3	3	3	2	2	-	2	-	-	-	2	-	2	3	1	1
C214.4	3	3	2	2	-	-	-	2	-	2	-	-	3	1	1
C214.5	3	3	2	2	-	-	-	-	-	2	-	-	3	1	1
C214.6	3	3	2	2	-	-	-	-	-	2	-	2	3	1	1
<b>C214</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>

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

PRINCIPAL  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
 Kaikkurichi - 622 303, Pudukkottai Dt.

**HOD EEE**  
**SRI BHARATHI ENGINEERING**  
**COLLEGE FOR WOMEN**  
**KAIKKURICHI,**  
**PUDUKKOTTAI - 622 303.**

\*3-High correlation; 2- Medium correlation; 1-Low correlation; '- ' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3404	MICROPROCESSOR AND MICROCONTROLLER	<b>C215.1:</b> Ability to write assembly language program for microprocessor and microcontroller.
		<b>C215.2:</b> Ability to design and implement interfacing of peripheral with microprocessor and Microcontroller.
		<b>C215.3:</b> Ability to analyze, comprehend, design and simulate microprocessor based systems used for control and monitoring.
		<b>C215.4:</b> Ability to analyze, comprehend, design and simulate microcontroller based systems used for control and monitoring.
		<b>C215.5:</b> Ability to describe and appreciate advanced architecture evolving microprocessor field.
		<b>C215.6:</b> Ability to explain and appreciate advanced architecture evolving microcontroller field.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C215.1	3	3	2	2	-	-	2	-	-	2	-	2	3	2	2
C215.2	3	3	2	2	-	-	2	-	-	2	-	2	3	2	2
C215.3	3	3	2	2	-	-	2	-	-	2	-	2	3	2	2
C215.4	3	3	2	2	-	-	2	-	-	2	-	2	3	2	2
C215.5	3	3	2	2	-	-	2	-	-	2	-	2	3	2	2
C215.6	3	3	2	2	-	-	2	-	-	2	-	2	3	2	2
<b>C215</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>

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

\*3-High correlation; 2- Medium correlation; 1-Low correlation; 0-No correlation

PRINCIPAL  
**SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN**  
 Kaikkurichi - 622 303, Pudukkottai Dt.

**HOD EEE**

**SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN**  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3405	ELECTRICAL MACHINES-II	<b>C216.1:</b> Ability to explain the construction and working principle of Synchronous generator.
		<b>C216.2:</b> Ability to describe the construction and working principle of Synchronous Motor.
		<b>C216.3:</b> Ability to generalize the construction and working principle of Three Phase Induction Motor.
		<b>C216.4:</b> Acquire knowledge about the starting and speed control of induction motors.
		<b>C216.5:</b> To gain knowledge about the basic principles and working of Single phase induction Motors.
		<b>C216.6:</b> To expand knowledge about the principles and working of Special Electrical Machines.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C216.1	3	3	3	2	2	-	2	-	-	2	-	2	3	3	2
C216.2	3	3	3	2	2	-	2	-	-	2	-	2	3	3	2
C216.3	3	3	3	2	2	-	2	-	-	2	-	2	3	3	2
C216.4	3	3	3	2	2	-	2	-	-	2	-	2	3	3	2
C216.5	3	3	3	2	2	-	2	-	-	2	-	2	3	3	2
C216.6	3	3	3	2	2	-	2	-	-	2	-	2	3	3	2
<b>C216</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>2</b>

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

PRINCIPAL  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurichi - 622 303, Pudukkottai Dt.

HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; - No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3411	ELECTRICAL MACHINES LABORATORY-II	<b>C218.1:</b> Ability to interpret and analyze EMF and MMF methods
		<b>C218.2:</b> Ability to analyze the characteristics of V and Inverted V curves
		<b>C218.3:</b> Acquire hands on experience of conducting various tests on alternators and obtaining their performance indices using standard analytical as well as graphical methods. To understand the importance of Synchronous machines
		<b>C218.4:</b> Acquire hands on experience of conducting various tests on induction motors and obtaining their performance indices using standard analytical as well as graphical methods.
		<b>C218.5:</b> To explain the importance of single and three phase Induction motors
		<b>C218.6:</b> Ability to attain knowledge on separation of losses.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C218.1	3	3	2	2	2	-	2	-	2	2	-	1	3	3	2
C218.2	3	3	2	2	2	-	2	-	2	2	-	1	3	3	2
C218.3	3	3	2	2	2	-	2	-	2	2	-	1	3	3	2
C218.4	3	3	2	2	2	-	2	-	2	2	-	1	3	3	2
C218.5	3	3	2	2	2	-	2	-	2	2	-	1	3	3	2
C218.6	3	3	2	2	2	-	2	-	2	2	-	1	3	3	2
<b>C218</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>2</b>

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

PRINCIPAL  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 Kaikkurichi - 622 303, Pudukkottai Dt.

HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2-Medium correlation; 1-Low correlation; - No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**


**REGULATION 2021**

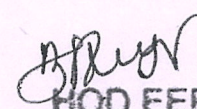
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3412	LINEAR AND DIGITAL CIRCUITS LABORATORY	<b>C219.1:</b> Ability to explain and implement Boolean Functions.
		<b>C219.2:</b> Ability to generalize the importance of code conversion.
		<b>C219.3:</b> Ability to Design and implement circuits with digital ICs like decoders, multiplexers, register.
		<b>C219.4:</b> Ability to acquire knowledge on Application of Op-Amp.
		<b>C219.5:</b> Ability to Design and implement counters using analog ICs like timers and VCOs.
		<b>C219.6:</b> Ability to develop and implement counters using digital ICs like Flip-flops and counters.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO 1	PSO 2	PSO 3
C219.1	3	3	3	3	2	-	2	-	2	2	2	1	2	2	2
C219.2	3	3	3	3	2	-	2	-	2	2	2	1	2	2	2
C219.3	3	3	3	3	2	-	2	-	2	2	2	1	2	2	2
C219.4	3	3	3	3	2	-	2	-	2	2	2	1	2	2	2
C219.5	3	3	3	3	2	-	2	-	2	2	-	1	2	2	2
C219.6	3	3	3	3	2	-	2	-	2	2	-	1	2	2	2
<b>C219</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>

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

  
**HOD EEE**  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303

\*3-High correlation; 2- Medium correlation; 1-Low correlation; '- ' No correlation



**SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN**  
**KAIKKURICHI, PUDUKKOTTAI - 622 303**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**REGULATION 2021**

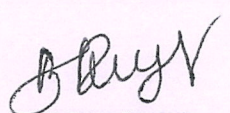
**B.E. EEE - COURSE OUTCOMES (CO)**

Course Code	Course Name	Course Outcome (CO) Students will be able to
EE3413	MICROPROCESSOR AND MICROCONTROLLER LABORATORY	<b>C220.1:</b> Ability to write assembly language program for microprocessor.
		<b>C220.2:</b> Ability to write assembly language program for microcontroller.
		<b>C220.3:</b> Ability to design and implement interfacing of peripheral with microprocessor and Microcontroller.
		<b>C220.4:</b> Ability to analyze, comprehend, design and simulate microprocessor based systems used for control and monitoring.
		<b>C220.5:</b> Ability to analyze, comprehend, design and simulate microcontroller based systems used for control and monitoring.
		<b>C220.6:</b> Apply the programming knowledge for understanding of communication standards in microprocessor and microcontroller.

**CO-PO MAPPING**

CO	PROGRAM OUTCOMES												PSO		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
C220.1	3	2	2	2	2	-	2	-	2	2	-	1	3	2	1
C220.2	3	2	2	2	2	-	2	-	2	2	-	1	3	2	1
C220.3	3	2	2	2	2	-	2	-	2	2	-	1	3	2	1
C220.4	3	2	2	2	2	-	2	-	2	2	-	1	3	2	1
C220.5	3	2	2	2	2	-	2	-	2	2	-	1	3	2	1
C220.6	3	2	2	2	2	-	2	-	2	2	-	1	3	2	1
<b>C220</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>

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

  
**HOD/EEE**  
 HOD EEE  
 SRI BHARATHI ENGINEERING  
 COLLEGE FOR WOMEN  
 KAIKKURICHI,  
 PUDUKKOTTAI - 622 303.

\*3-High correlation; 2- Medium correlation; 1-Low correlation; - No correlation