



# 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 – 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, Affiliated to Anna University, Chennai-25

KAIKKURUCHI, PUDUKOTTAI – 622 303

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

## 1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

<b>Certificate Course Title:</b>	<b>DISASTER MITIGATION AND PREPAREDNESS</b>				
<b>Resource Person:</b>	Mrs.R.Padma Rani, Assistant Professor, Department of Civil Engineering, Sri Bharathi Engineering College for Women		Ms.Raci.Mahizhini, Assistant Professor, Department of Civil Engineering, Sri Bharathi Engineering College for Women		
<b>Date of conduct from :</b>	01.02.23 (IV year)	<b>To:</b>	12.05.23(IV year)	<b>Duration:</b>	30 Hrs
	30.01.23(II&III year)		03.02.23(II&III year)		
<b>Organized Department :</b>	CIVIL ENGINEERING				
<b>Participant Year:</b>	4,3&2	<b>Semester:</b>	EVEN	<b>No. of Students Registered :</b>	24
<b>Venue:</b>	First Floor - Lecture Hall : 31				

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Date: 25/01/2023

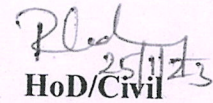
### DEPARTMENT CIRCULAR

Certificate course offered by the Department of Civil Engineering for Final year Civil Engineering students on “Disaster Mitigation and Preparedness” in our College campus. The Classes will be held as per the schedule mentioned in the class time table. Certificates will be issued to the eligible participants at the end of the Course.

S.No.	Name of the Course	Resource Person
1.	Disaster Mitigation and Preparedness	Mrs.R.Padma Rani, Assistant Professor, Department of Civil Engineering, Sri Bharathi Engineering College for Women, Kaikkurichi, Pudukkottai.

Cc:

- Principal's Office
- IQAC Coordinator
- Class In charges - II, III & IV-year of Civil Engineering
- II, III & IV-year Civil Engineering Students
- Notice Board

  
25/1/23  
HoD/Civil

HOD / CIVIL

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

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



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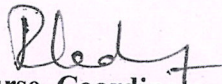
DEPARTMENT OF CIVIL ENGINEERING

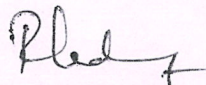
ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Certificate Course on “Disaster Mitigation and Preparedness”

## SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Importance & Scope of Disaster Management	3	06.02.2023
2	Different Types of Disaster – Causes & effects	3	13.02.2023
3	Strategic Development for Vulnerability Reduction	3	20.02.2023
4	Disaster Preparedness and mitigation Plan	3	27.02.2023
5	Prediction, Early Warnings and Safety Measures of Disaster	3	06.03.2023
6	Role of Information, Education, Communication, and Training	3	20.03.2023.
7	Role of Government, International and NGO Bodies	3	27.03.2023
8	Post Disaster effects and Remedial Measures.	3	03.04.2023
9	Reconstruction and Rehabilitation as a Means of Development.	3	17.04.2023
10	Case studies on various types of natural and man made disaster.	3	24.04.2023
<b>Total Hours</b>		30	-

  
Course Coordinator

  
HoD/Civil  
HOD/CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303

  
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
PRINCIPAL  
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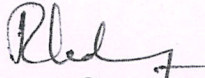
## DEPARTMENT OF CIVIL ENGINEERING


ACADEMIC YEAR 2022-2023 (EVEN SEM)

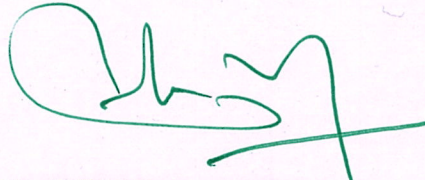
STUDENTS PARTICIPATION LIST-CERTIFICATE COURSE

DISASTER MITIGATION & PREPAREDNESS

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912619103001	AJITHA T	IV/CIVIL
2	912619103002	ARULJENIFAR C	IV/CIVIL
3	912619103003	DIVYA V	IV/CIVIL
4	912619103004	MANGAIYARKARASI G	IV/CIVIL
5	912619103005	MUTHULAKSHMI S	IV/CIVIL
6	912619103006	PRAVEENA S	IV/CIVIL
7	912619103007	PRIYADHARSHINI K	IV/CIVIL
8	912619103009	RAGAVI V	IV/CIVIL
9	912619103301	LILLY JOHN J	IV/CIVIL
10	912619103302	BHUVANI S	IV/CIVIL

  
Course Coordinator

  
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PRINCIPAL  
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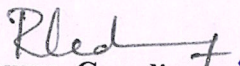
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DEPARTMENT OF CIVIL ENGINEERING

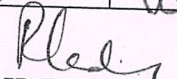
ACADEMIC YEAR 2022-2023 (EVEN SEM)

## ATTENDANCE SHEET FOR CERTIFICATE COURSE - DISASTER MITIGATION & PREPAREDNESS

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	06.02.23	13.02.23	20.02.23	27.02.23	06.03.23	20.03.23	27.03.23	03.04.23	17.04.23	24.04.23	08.05.23	NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN		
1	912619103001	AJITHA T	IV/CIVIL	1	1	1	1	1	1	1	1	1	1	1	10	Ajitha
2	912619103002	ARULJENIFAR C	IV/CIVIL	1	1	1	1	1	1	1	1	1	1	1	10	Aruljenifar
3	912619103003	DIVYA V	IV/CIVIL	1	a	1	1	1	1	1	1	1	1	1	9	Divya
4	912619103004	MANGAIYARKARASI G	IV/CIVIL	1	1	a	1	a	1	1	1	1	1	1	8	Mangaiyarkarasi
5	912619103005	MUTHULAKSHMI S	IV/CIVIL	1	1	1	1	1	1	a	1	1	1	1	9	Muthulakshmi
6	912619103006	PRAVEENA S	IV/CIVIL	1	a	1	1	1	1	1	1	1	1	1	9	Praveena
7	912619103007	PRIYADHARSHINI K	IV/CIVIL	1	1	1	1	1	1	1	a	1	1	1	9	Priyadharshini
8	912619103009	RAGAVI V	IV/CIVIL	1	1	1	1	1	1	1	a	1	1	1	9	Ragavi
9	912619103301	LILLY JOHN J	IV/CIVIL	1	1	1	1	1	1	1	1	a	1	1	10	Lilly John
10	912619103302	BHUVANI S	IV/CIVIL	1	a	1	1	a	1	1	1	1	1	1	8	Bhuvani

  
Course Coordinator

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



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## Report on Certificate course

Title: **Disaster Mitigation and Preparedness**

Resource Person: Mrs.R.Padma Rani,  
Assistant Professor,  
Department of Civil Engineering.

Date of conduct from : **01.02.2023** To: **12.05.2023** Duration: **30 Hours**

Organized Department : **CIVIL ENGINEERING**

Participant Year: **4** Semester: **EVEN** No. of Students Registered : **10**

Venue: **First Floor - Lecture Hall:30**

### **Outcome of Certificate Course (CC) : Students can able to**

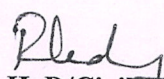
- Understand disasters, disaster preparedness and apply the mitigation measures
- Identify the natural and environmental disasters, its causes and apply preventive measures.
- Explain about the organizational and administrative strategies for managing disasters.
- Understand the working of early warning systems, monitoring of disasters effect and necessity of rehabilitation.
- Evaluate the concept of work on engineering and non-engineering controls of mitigating toward natural disasters.
- Learn methodologies for disaster risk assessment with the help of latest tools like GPS, GIS, Remote sensing, information technology.

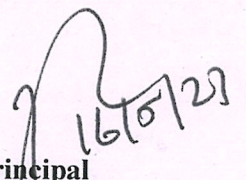
No. of students successfully completed the Certificate Course is **10 students** based on the following assessment process.

### **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 CC out of 100 marks)

  
Course Coordinator

  
HoD/Civil  
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Principal

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KAIKKURICHI,  
PUDUKKOTTAI - 622 303

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

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



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

## CERTIFICATE OF PARTICIPATION

This is Certify that Ms. S MUTHULAKSHMI B.E - Civil Engineering IV year has successfully completed the Certificate Course on “Disaster Mitigation and Preparedness” conducted from 01.02.2023 - 12.05.2023 during the Academic year 2022-2023.

**COURSE COORDINATOR**

**PRINCIPAL**

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





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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

## CERTIFICATE OF PARTICIPATION

This is Certify that Ms. V RAGAVI B.E - Civil Engineering IV year has successfully completed the Certificate Course on “Disaster Mitigation and Preparedness” conducted from 01.02.2023 - 12.05.2023 during the Academic year 2022-2023.

**COURSE COORDINATOR**

**PRINCIPAL**

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



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Name of the Student :

Year/Sem:

AU Register Number:

Certificate Course on “Disaster Mitigation and Preparedness”

## MCQ QUESTIONS (25X4 = 100 Marks)

- Disasters can be broadly termed as \_\_\_\_\_ types.
  - 2
  - 4
  - 5
  - 3
- The annual flood peaks in India are recorded in months of:
  - June, July
  - July, August
  - July, September
  - August, September
- Uttarakhand lies in zone \_\_\_\_\_ of Earthquake prone areas.
  - 5
  - 3
  - 4
  - 2
- To measure flood variability, \_\_\_\_\_ is used widely.
  - FFMI
  - FI
  - FMI
  - FFI
- Disaster management deals with situation that occurs after the disaster.
  - True
  - False
- How many elements of disaster management are there?
  - 8
  - 7
  - 4
  - 6

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PRINCIPAL  
SRI BHARATHI ENGINEERING  
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Kaikkurichi - 622 303, Pudukkottai, TN

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

7. Which of the below is an example of slow-onset disaster?

- a) Earthquake
- b) Tsunami
- c) Cyclone
- d) Draught

8. How many phases of disaster response are there?

- a) 5
- b) 4
- c) 3
- d) 2

9. The first step in preparedness planning is:

- a) Analysis of data collected
- b) Determination of objectives
- c) Development of implementing device
- d) Determination of strategy

10. Tsunami detectors are placed in sea at \_\_\_\_\_ kms from shore.

- a) 25
- b) 100
- c) 50
- d) 85

11. The National Institute of Disaster Management (NIDM) was established on \_\_\_\_\_.

- a) September 23, 2002
- b) August 14, 2001
- c) October 16, 2003
- d) August 14, 2004

12. In which city the National Institute of Disaster Management is situated?

- a. Kolkata
- b. New Delhi
- c. Hyderabad
- d. Manipur

13. Which wave of an earthquake is produced by a rolling effect along the earth's surface?

- a. L wave
- b. P wave
- c. S wave
- d. None of the above

14. Which of the following are the common factors of wildfire hazards?

- a. Volcanic eruption
- b. El-Nino



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Kalkkurchi - 622 303, Pudukkottai Dt.

- c. Volcanic Lightning and thundering
- d. All of the above

15. India's total cyclone-prone area is .....

- a. 15%
- b. 10%
- c. 8%
- d. 20%

16. Which method is widely used to measure flood variability?

- a. FFI
- b. FFMI
- c. FI
- d. FMI

17. How many steps are there in the disaster recovery process?

- a. 7
- b. 4
- c. 8
- d. 5

18. To detect Tsunami along the coast, coastal tide gauges are placed.....km away?

- a. 100
- b. 75
- c. 50
- d. 25

19. How many distinct types of actions are defined as part of disaster management?

- a. 4
- b. 7
- c. 5
- d. 6

20. International Day of Natural Disaster Reduction is celebrated on?

- a. June 15
- b. March 5
- c. October 13
- d. September 13

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21. What is the location of the International Tsunami Information Center?

- a. Honolulu
- b. Hyderabad
- c. Goa
- d. Pondicherry

22. Select the correct full form of ISDR?

- a. International Sustainable Development Report
- b. International Strategy for Disaster Reduction
- c. International Significant Disaster Resources
- d. Intergovernmental Strategy for developing Recreation

23. What devices are used to track minute changes in volcanoes' ground slope and shape?

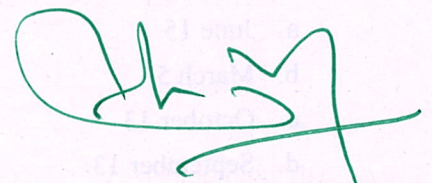
- a. Strain meters
- b. Tiltmeter
- c. Both a and b
- d. None of these

24. Who released the first Disaster Management Plan of India?

- a. H. D. Deve Gowda
- b. Atal Bihari Vajpayee
- c. Manmohan Singh
- d. Narendra Modi

25. According to the Indian Meteorological Department (IMD), which storm is classified as a "Super cyclone" when the wind blows at whatever speed?

- a. Above 200 km
- b. Above 110 km
- c. Above 220 km
- d. None of the above



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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Certificate Course on “Disaster Mitigation and Preparedness”

## ANSWER KEY

1	a	6	d	11	d	16	b	21	a
2	d	7	d	12	b	17	d	22	b
3	c	8	a	13	c	18	c	23	b
4	a	9	b	14	d	19	d	24	d
5	b	10	c	15	c	20	c	25	c

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Name of the Student : *Murthu Lakshmi S*

Year/Sem: *IV / V///*

AU Register Number: *912619103005*

22  
25

Certificate Course on “Disaster Mitigation and Preparedness”

## MCQ QUESTIONS (25X4 = 100 Marks)

- Disasters can be broadly termed as \_\_\_\_\_ types.  
 a) 2  
 b) 4  
 c) 5  
 d) 3
- The annual flood peaks in India are recorded in months of:  
 a) June, July  
 b) July, August  
 c) July, September  
 d) August, September
- Uttarakhand lies in zone \_\_\_\_\_ of Earthquake prone areas.  
 a) 5  
 b) 3  
 c) 4  
 d) 2
- To measure flood variability, \_\_\_\_\_ is used widely.  
 a) FFMI  
 b) FI  
 c) FMI  
 d) FFI
- Disaster management deals with situation that occurs after the disaster.  
 a) True  
 b) False
- How many elements of disaster management are there?  
 a) 8  
 b) 7  
 c) 4  
 d) 6

*[Signature]*  
**Dr. S. THILAGAVATHI M.E., Ph.D.,**  
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7. Which of the below is an example of slow-onset disaster?

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10. Tsunami detectors are placed in sea at \_\_\_\_\_ kms from shore.

- a) 25
- b) 100
- c) 50
- d) 85

11. The National Institute of Disaster Management (NIDM) was established on \_\_\_\_\_.

- a) September 23, 2002
- b) August 14, 2001
- c) October 16, 2003
- d) August 14, 2004

12. In which city the National Institute of Disaster Management is situated?

- a. Kolkata
- b. New Delhi
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- d. Manipur

13. Which wave of an earthquake is produced by a rolling effect along the earth's surface?

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14. Which of the following are the common factors of wildfire hazards?

- a. Volcanic eruption
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Dr. S. THILAGAVATHI M.E., Ph.D.,  
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- c. Volcanic Lightning and thundering
- d. All of the above

15. India's total cyclone-prone area is .....

- a. 15%
- b. 10%
- c. 8%
- d. 20%

16. Which method is widely used to measure flood variability?

- a. FFI
- b. FFMI
- c. FI
- d. FMI

17. How many steps are there in the disaster recovery process?

- a. 7
- b. 4
- c. 8
- d. 5

18. To detect Tsunami along the coast, coastal tide gauges are placed.....km away?

- a. 100
- b. 75
- c. 50
- d. 25

19. How many distinct types of actions are defined as part of disaster management?

- a. 4
- b. 7
- c. 5
- d. 6

20. International Day of Natural Disaster Reduction is celebrated on?

- a. June 15
- b. March 5
- c. October 13
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21. What is the location of the International Tsunami Information Center?

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- b. Hyderabad
- c. Goa
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- a. International Sustainable Development Report
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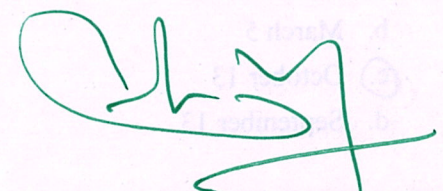
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- a. Above 200 km
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Name of the Student : S. Praveena

Year/Sem: IV / VIII

AU Register Number: 9126/19103006

19  
25

Certificate Course on “Disaster Mitigation and Preparedness”

## MCQ QUESTIONS (25X4 = 100 Marks)

1. Disasters can be broadly termed as \_\_\_\_\_ types.

- a) 2
- b) 4
- c) 5
- d) 3

2. The annual flood peaks in India are recorded in months of:

- a) June, July
- b) July, August
- c) July, September
- d) August, September

3. Uttarakhand lies in zone \_\_\_\_\_ of Earthquake prone areas.

- a) 5
- b) 3
- c) 4
- d) 2

4. To measure flood variability, \_\_\_\_\_ is used widely.

- a) FFMI
- b) FI
- c) FMI
- d) FFI

5. Disaster management deals with situation that occurs after the disaster.

- a) True
- b) False

6. How many elements of disaster management are there?

- a) 8
- b) 7
- c) 4
- d) 6

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7. Which of the below is an example of slow-onset disaster?

- a) Earthquake
- b) Tsunami
- c) Cyclone
- d) Draught

8. How many phases of disaster response are there?

- a) 5
- b) 4
- c) 3
- d) 2

9. The first step in preparedness planning is:

- a) Analysis of data collected
- b) Determination of objectives
- c) Development of implementing device
- d) Determination of strategy

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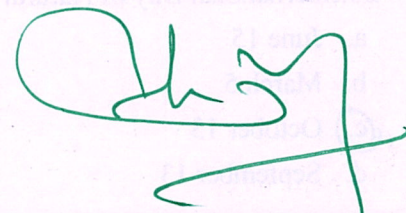
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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEM)

MARK SHEET FOR CERTIFICATE COURSE- DISASTER MITIGATION & PREPAREDNESS

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912619103001	AJITHA T	IV/CIVIL	9	27	20	90	80
2	912619103002	ARULJENIFAR C	IV/CIVIL	10	30	21	100	84
3	912619103003	DIVYA V	IV/CIVIL	8	24	17	80	68
4	912619103004	MANGAIYARKARASI G	IV/CIVIL	8	24	18	80	72
5	912619103005	MUTHULAKSHMI S	IV/CIVIL	9	27	22	90	88
6	912619103006	PRAVEENA S	IV/CIVIL	9	27	19	90	76
7	912619103007	PRIYADHARSHINI K	IV/CIVIL	9	27	21	90	84

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Kaikkurichi - 622 303 Pudukkottai Dt

8	912619103009	RAGAVI V	IV/CIVIL	9	27	22	90	88
9	912619103301	LILLY JOHN J	IV/CIVIL	10	30	20	100	80
10	912619103302	BHUVANI S	IV/CIVIL	8	24	17	80	68

*Rledy*  
**Course Coordinator**

*Rledy*  
**HoD/Civil**

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## DEPARTMENT OF CIVIL ENGINEERING

### ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Date: 25/01/2023

#### DEPARTMENT CIRCULAR

Certificate course offered by the Department of Civil Engineering for all Second & Third year Civil Engineering students on “**Disaster Mitigation and Preparedness**” in our College campus from 30.01.2023 to 03.02.2023. Certificates will be issued to the eligible participants at the end of the Course.

S.No.	Name of the Course	Resource Person
1.	Disaster Mitigation and Preparedness	1.Mrs.R.Padma Rani, Assistant Professor, Department of Civil Engineering. Sri Bharathi Engineering College for Women, Kaikkurichi, Pudukkottai.
		2.Ms.Raci.Mahizhini, Assistant Professor, Department of Civil Engineering. Sri Bharathi Engineering College for Women, Kaikkurichi, Pudukkottai.

Cc:

- Principal's Office
- IQAC Coordinator
- Class In charges - II, III & IV-year of Civil Engineering
- II, III & IV-year Civil Engineering Students
- Notice Board

*Rledy*  
HoD/Civil 25/1/23  
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SRI BHARATHI ENGINEERING  
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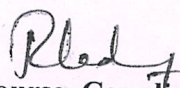
DEPARTMENT OF CIVIL ENGINEERING


ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Certificate Course on “Disaster Mitigation and Preparedness”

## SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE	RESOURCE PERSON
1	Importance & Scope of Disaster Management	3	30.01.2023	Mrs.R.Padma Rani
2	Different Types of Disaster - Causes, effects	3	30.01.2023	Ms.Raci.Mahizhini
3	Strategic Development for Vulnerability Reduction	3	31.01.2023	Mrs.R.Padma Rani
4	Disaster Preparedness and mitigation Plan	3	31.01.2023	Ms.Raci.Mahizhini
5	Prediction, Early Warnings and Safety Measures of Disaster	3	01.02.2023	Mrs.R.Padma Rani
6	Role of Information, Education, Communication, and Training,	3	01.02.2023	Ms.Raci.Mahizhini
7	Role of Government, International and NGO Bodies	3	02.02.2023	Mrs.R.Padma Rani
8	Post Disaster effects and Remedial Measures.	3	02.02.2023	Ms.Raci.Mahizhini
9	Reconstruction and Rehabilitation as a Means of Development.	3	03.02.2023	Mrs.R.Padma Rani
10	Case studies on various types of natural and man made disaster.	3	03.02.2023	Ms.Raci.Mahizhini
<b>Total Hours</b>		30	-	

  
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## DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEM)

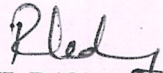
STUDENTS PARTICIPATION LIST-CERTIFICATE COURSE

DISASTER MITIGATION & PREPAREDNESS

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912621103001	AKILA G	II/CIVIL
2	912621103003	JAYABHARATHI R	II/CIVIL
3	912621103004	JAYA MANOHARI B	II/CIVIL
4	912621103005	PRIYADHARSHINI A	II/CIVIL
5	912621103006	RABIA BANU M	II/CIVIL
6	912621103007	SHERLIN KAVYA B	II/CIVIL
7	912621103301	JENIFAR A	II/CIVIL
8	912621103302	KALAIARASI G	II/CIVIL
9	912620103001	ASWINI T	III/CIVIL
10	912620103002	GEETHA M	III/CIVIL
11	912620103003	KEERTHI S	III/CIVIL
12	912620103004	SUBATHRA S	III/CIVIL
13	912620103301	BHAVANI S	III/CIVIL
14	912620103302	MEGALA V	III/CIVIL

  
Course Coordinator

  
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ACADEMIC YEAR 2022-2023 (EVEN SEM)

## ATTENDANCE SHEET FOR CERTIFICATE COURSE - DISASTER MITIGATION & PREPAREDNESS

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE: 30.01.23		DATE: 31.01.23		DATE: 01.02.23		DATE: 02.02.23		DATE: 03.02.23		NO OF SESSIONS ATTENDED	SIGNATURE OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	912621103001	AKILA G	II/CIVIL	/	a	/	/	/	/	/	/	/	/	9	G. Akila
2	912621103003	JAYABHARATHI R	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10	R. Jayabharathi
3	912621103004	JAYA MANOHARI B	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10	J. Manohari B.
4	912621103005	PRIYADHARSHINI A	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10	P. Priyadharshini A.
5	912621103006	RABIA BANU M	II/CIVIL	/	/	/	a	/	/	/	a	/	/	8	M. Rabia Banu
6	912621103007	SHERLIN KAVYA B	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10	B. Sherlin Kavya
7	912621103301	JENIFAR A	II/CIVIL	/	a	/	/	/	a	/	/	/	/	8	J. Jenifar A.
8	912621103302	KALAIARASI G	II/CIVIL	/	/	/	/	/	/	/	a	/	/	9	G. Kalaiarasi
9	912620103001	ASWINI T	III/CIVIL	/	/	/	a	/	/	/	/	/	/	9	T. Aswini

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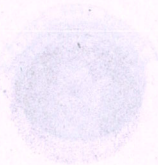
Kaikkurichi, Pudukkottai, Tamil Nadu - 622 303

10	912620103002	GEETHA M	III/CIVIL	1	1	1	1	1	1	1	1	1	1	1	10	M. Guntha
11	912620103003	KEERTHI S	III/CIVIL	1	a	1	1	1	1	1	1	1	1	1	9	S. Keerthi
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13	912620103301	BHAVANI S	III/CIVIL	1	1	1	1	1	1	1	1	1	a	1	9	
14	912620103302	MEGALA V	III/CIVIL	1	1	1	1	1	1	1	a	1	1	1	9	v. Megha

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## Report on Certificate Course

Title:	Disaster Mitigation and Preparedness				
Resource Person:	Mrs.R.Padma Rani, Assistant Professor, Department of Civil Engineering.		Ms.Raci.Mahizhini, Assistant Professor, Department of Civil Engineering.		
Date of conduct from :	30.01.2023	To:	03.02.2023	Duration:	30 Hours
Organized Department :	CIVIL ENGINEERING				
Participant Year:	2, 3	Semester:	EVEN	No. of Students Registered :	14
Venue:	First Floor - Lecture Hall:31				

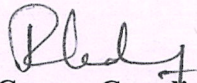
### Outcome of Certificate Course (CC) : Students can able to

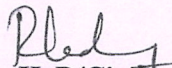
- Understand disasters, disaster preparedness and apply the mitigation measures
- Identify the natural and environmental disasters, its causes and apply preventive measures.
- Explain about the organizational and administrative strategies for managing disasters.
- Understand the working of early warning systems, monitoring of disasters effect and necessity of rehabilitation.
- Evaluate the concept of work on engineering and non-engineering controls of mitigating toward natural disasters.
- Learn methodologies for disaster risk assessment with the help of latest tools like GPS, GIS, Remote sensing, information technology.

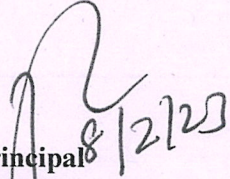
No. of students successfully completed the Certificate Course is **14 students** based on the following assessment process.

### 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 =  $(0.5 * \text{Attendance in VAC out of 100 percentage} + 0.5 * \text{Test mark in CC out of 100 marks})$

  
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KAIKKURICHI - 622 303.  
PUDUKKOTTAI DISTRICT

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



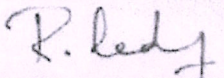
# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

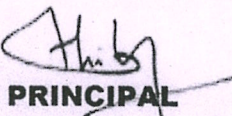
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

### CERTIFICATE OF PARTICIPATION

This is Certify that Ms. JAYABHARATHI R B.E - Civil Engineering II year has successfully completed the Certificate Course on “Disaster Mitigation and Preparedness” conducted from 30<sup>th</sup> January 2023 to 3<sup>rd</sup> February 2023 (5 days) during the Academic year 2022-2023.

  
COURSE COORDINATOR

  
PRINCIPAL

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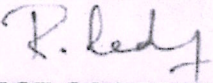
# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

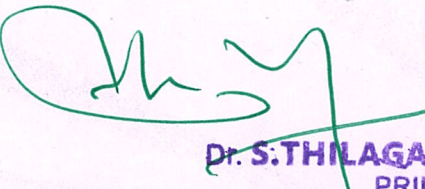
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

### CERTIFICATE OF PARTICIPATION

This is Certify that Ms. ASWINI T B.E - Civil Engineering III year has successfully completed the Certificate Course on "Disaster Mitigation and Preparedness" conducted from 30<sup>th</sup> January 2023 to 3<sup>rd</sup> February 2023 (5 days) during the Academic year 2022-2023.

  
COURSE COORDINATOR



  
PRINCIPAL

Dr. S. THILAGAVATHI M.E., Ph.D.,  
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

### ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Name of the Student :

Year/Sem:

AU Register Number:

Certificate Course on “Disaster Mitigation and Preparedness”

### MCQ QUESTIONS (25X4 = 100 Marks)

- Disaster Management includes: \_\_\_\_\_
  - Mitigation
  - Reconstruction
  - Rehabilitation
  - All of the above
- Which of the following should be practiced during LPG leakage?
  - Open windows
  - Close windows
  - Hide under chair
  - Switch on the light
- Which of the following is the objective of pre-disaster management?
  - Collect information
  - Participation of people
  - First aid
  - Mock drill
- Which of the following is considered as geological disaster?
  - Earthquake
  - War
  - Famine
  - Terrorism
- Who is the chairman of the district disaster management authority?
  - Mayor
  - Collector
  - President
  - Common people
- Farming practices are restarted in \_\_\_\_\_
  - Reconstruction phase
  - Transitional phase
  - Preparatory Phase
  - Last phase
- Which of the following is considered as objective of disaster management?
  - Dispose dead bodies
  - Supplying of essential commodities
  - Rehabilitation of disaster victims
  - All of these
- Which are the effects of dry famine?
  - Loss of life
  - Collapse of building
  - Soil erosion
  - Water logging
- Which are the destructive effects of flood?
  - Collapsing of bridges
  - flooding of coastal villages and shortage of food
  - Soil erosion
  - All of these

  
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Kaikkurichi - 622 303, Pudukkottai Dt.

10. District-wise Disaster Control Unit keeps in contact with \_\_\_\_\_
- a) Army  
b) Navy  
c) Both (a) and (b)  
d) None of the above
11. Rehabilitation is the priority of which of the following phases?
- a) Phase of emergency  
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12. Which is the first phase of the three aspects of disaster?
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13. Hazards and Disasters are mainly classified as
- a) Physical and chemical  
b) Natural and Human induced  
c) Physical and Human  
d) Social and cultural
14. A hazard is a situation where there is
- a) Threat of natural calamity  
b) Threat to property and lives from calamities  
c) Threat for consequences of disaster  
d) All of the above
15. What are the important measures to be taken in community level of disaster preparedness
- a) Increased awareness  
b) Provision of early and timely warning  
c) Landuse planning  
d) All of the above
16. Which are the major controlling systems for reduction of volcanic disaster?
- a) Prediction for early warning of eruption  
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17. Which techniques are used for prediction of early warning of eruption?
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b) Tilt Meters  
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d) All of the above
18. Warning about cyclonic disaster is convened through
- a) Newspaper  
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19. Structural and Non-structural measures are elements of high category of Risk Reduction
- a) Socio-economic measures  
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20. What are the major types oriented to mitigation measures of hazards and disasters?
- a) Public mitigation measures  
b) Community mitigation measures  
c) Both a and b  
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21. What are the main prescribes procedures for standard operating?
- a) Search and rescue  
b) Medical assistant  
c) Casualty management  
d) All of the above
22. The most essential item that the disaster stricken populations must be provided with is
- a) Shelter material  
b) Drinking water  
c) Fuel  
d) All of the above

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

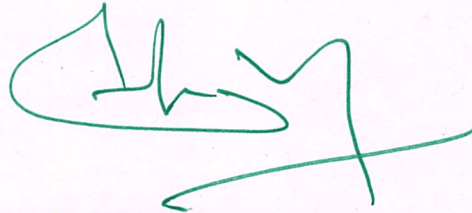
PRINCIPAL

SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkottai Dt.

23. The primary goal of a disaster preparedness plan is:
- a) To protect the population
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  - c) To keep communications lines open
  - d) To protect environmental health personnel
24. Which of the following is a disaster mitigation strategy?
- a) Constructing cyclone shelters
  - b) Giving loans from banks
  - c) Providing cheap electricity
  - d) Providing school uniforms to children
25. National Disaster Management Division of the Govt. of India wherever necessary, sends to disaster affected areas?
- a) Coordination its containing satellite phones
  - b) Medicines for affected people
  - c) Provides relief measures
  - d) All the above



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Certificate Course on “Disaster Mitigation and Preparedness”

## ANSWER KEY

1	d	6	a	11	c	16	c	21	c
2	a	7	d	12	a	17	c	22	d
3	a	8	a	13	b	18	d	23	b
4	a	9	b	14	b	19	d	24	a
5	b	10	c	15	d	20	b	25	a

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

## DEPARTMENT OF CIVIL ENGINEERING

### ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Name of the Student : M. Geetha

Year/Sem: III / VI

AU Register Number: 912620103002

21  
25

Pr

Certificate Course on “Disaster Mitigation and Preparedness”

### MCQ QUESTIONS (25X4 = 100 Marks)

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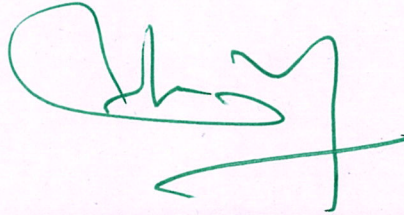
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Kaikkurichi - 622 303, Pudukkottai

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Name of the Student : *Sherlin Kavya*

Year/Sem: *II / IV*

AU Register Number: *912621103007*

22  
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25

Certificate Course on “Disaster Mitigation and Preparedness”

**MCQ QUESTIONS (25X4 = 100 Marks)**

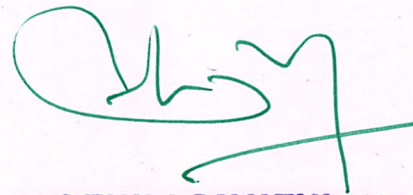
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*[Signature]*  
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Kalkkurchi - 622 303, Pudukkottai Dt.



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 / EVEN SEMESTER

Name of the Student : G. KALAIARASI

Year/Sem: 2<sup>nd</sup> year - IV

AU Register Number: 912621103302

18  
25

Certificate Course on “Disaster Mitigation and Preparedness”

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2022-2023 (EVEN SEM)

MARK SHEET FOR CERTIFICATE COURSE- DISASTER MITIGATION & PREPAREDNESS

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912621103001	AKILA G	II/CIVIL	9	90	19	76	83
2	912621103003	JAYABHARATHI R	II/CIVIL	10	100	21	84	92
3	912621103004	JAYA MANOHARI B	II/CIVIL	10	100	22	88	94
4	912621103005	PRIYADHARSHINI A	II/CIVIL	10	100	18	72	86
5	912621103006	RABIA BANU M	II/CIVIL	8	80	19	76	78
6	912621103007	SHERLIN KAVYA B	II/CIVIL	10	100	22	88	94
7	912621103301	JENIFAR A	II/CIVIL	8	80	17	68	74

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

8	912621103302	KALAIARASI G	II/CIVIL	9	90	18	72	81
9	912620103001	ASWINI T	III/CIVIL	9	90	20	80	85
10	912620103002	GEETHA M	III/CIVIL	10	100	21	84	92
11	912620103003	KEERTHI S	III/CIVIL	9	90	19	76	83
12	912620103004	SUBATHRA S	III/CIVIL	10	100	22	88	94
13	912620103301	BHAVANI S	III/CIVIL	9	90	17	68	79
14	912620103302	MEGALA V	III/CIVIL	9	90	20	80	85

*Pledy*  
Course Coordinator

*Pledy*  
HoD/Civil  
HOD / CIVIL  
SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
KAIKKURICHI,  
PUDUKKOTTAI - 622 303

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SRI BHARATHI ENGINEERING  
COLLEGE FOR WOMEN  
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