



SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

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

www.sbec.edu.in

NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 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 ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / 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

VAC Title:	ELECTRICAL SAFETY				
Resource Person:	Mrs. B.PRIYA Assistant professor, EEE department, SBECW.				
Date of conduct from :	07.03.2022	To:	11.03.2022	Duration:	30 Hours
Organized Department :	ELECTRICAL AND ELECTRONICS ENGINEERING				
Participant Year:	2/ 3 /4	Semester:	EVEN	No. of Students Registered :	25
Venue:	Tutorial Hall:42 ,SBECW				

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

DEPARTMENT CIRCULAR

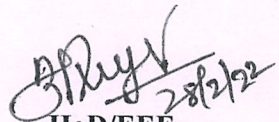
Date: 28.02.22

This is to inform that certificate course offered by the Department of Electrical and Electronics Engineering will be conducted for all Second, Third & Final year on “**ELECTRICAL SAFETY**” from 07.03.2022 to 11.03.2022. Certificates will be issued to all eligible participants at the end of the Course. The resource person details are shown in the following table.

RESOURCE PERSON DETAILS:

S.No.	Name of the Course	Course Coordinator
1.	Electrical Safety	Mrs. B.PRIYA Assistant professor, EEE department, SBECW.


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

Cc:

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



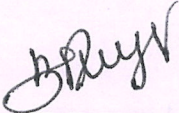
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ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE
ELECTRICAL SAFETY
SCHEDULE

SI .NO	TOPICS	DURATION (in hours)	DATE
1.	Objectives of safety and security measures, principles of electrical safety.	2	07.03.2022
2.	Primary and secondary electrical shocks	2	07.03.2022
3.	Possibilities of getting electrical shock and its severity	2	07.03.2022
4.	Medical analysis of electric shocks and its effects	3	08.03.2022
5.	Safety precautions against shocks, burns	3	08.03.2022
6.	Electrical safety in residential, commercial	3	09.03.2022
7.	Electrical safety in agricultural installations	3	09.03.2022
8.	Principles of Safety Management, Management Safety Policy	3	10.03.2022
9.	Safety organization, safety auditing.	3	10.03.2022
10.	Review of IE rules and acts and their significance	3	11.03.2022
11.	The Electricity Act, 2003, (Part1, 2, 3,4 & 5)	3	11.03.2022
TOTAL HOURS		30 HOURS	


COURSE COORDINATOR


Dr. **S.THILAGAVATHI** M.E., Ph.D.,
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Kaikkuruchi - 622 303, Pudukkottai Dt.


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

STUDENT NAME LIST FOR CERTIFICATE COURSE

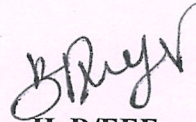
ELECTRICAL SAFETY

S.NO	REG.NO	NAME	YEAR & SEMESTER
1	912620105001	KAYALVIZHI K	II & IV
2	912620105002	RAMADEVI S	II & IV
3	912620105003	SRINANTHANA S	II & IV
4	912620105302	KAVIYA R	II & IV
5	912620105303	KOPPERUNDEVI S	II & IV
6	912620105304	NARMATHA DEVI K	II & IV
7	912620105305	SRIBHARATHI S	II & IV
8	912619105001	AASHIKA R	III & VI
9	912619105002	ABINAYA S	III & VI
10	912619105003	ABITHA P	III & VI
11	912619105004	ARTHY N	III & VI
12	912619105005	DEEPIKA R	III & VI
13	912619105007	NISHA S	III & VI
14	912619105008	PAVITHRA M	III & VI
15	912619105009	PRAGADEESHWARI A	III & VI
16	912619105010	SIVARANJANI S	III & VI
17	912619105301	RAGAVI R	III & VI


Dr. S.THILAGAVATHI M.E., Ph.D.,
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18	912618105001	AARTHI G	IV & VIII
19	912618105002	AASHA R	IV & VIII
20	912618105003	AGARI S	IV & VIII
21	912618105004	JEEVITHA R	IV & VIII
22	912618105005	NISHA K	IV & VIII
23	912618105006	RAMANA R	IV & VIII
24	912618105007	SNEHA S	IV & VIII
25	912618105301	VINOTHINI V	IV & VIII


COURSE COORDINATOR


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

ATTENDANCE SHEET FOR CERTIFICATE COURSE

ELECTRICAL SAFETY

S.N O	REG. NO	NAME	YEAR/ SEM	07.03.22		08.03.22		09.03.22		10.03.22		11.03.22		NO. OF CLASS ATTENDED	SIGN OF STUDENT
				F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N	F.N	A.N		
1	912620105001	KAYALVIZHI K	II & IV	/	/	/	/	/	/	/	/	/	/	10	K.Kanjanrishi
2	912620105002	RAMADEVI S	II & IV	/	a	/	/	/	/	/	/	/	/	09	Ranj.
3	912620105003	SRINANTHANA S	II & IV	/	/	/	/	/	/	/	/	/	/	10	S.Sridayal.
4	912620105302	KAVIYA R	II & IV	/	/	/	/	/	/	/	/	/	/	10	R.Naviya
5	912620105303	KOPPERUNDEVI S	II & IV	/	/	/	/	/	/	/	/	/	/	10	S.kanf.
6	912620105304	NARMATHA DEVI K	II & IV	a	a	/	/	/	/	/	/	/	/	08	K.Narmatha
7	912620105305	SRIBHARATHI S	II & IV	/	/	/	/	/	/	/	/	/	/	10	S.Sri Bharathi
8	912619105001	AASHIKA R	III & VI	/	/	/	/	/	a	/	/	/	/	09	R.Aashika
9	912619105002	ABINAYA S	III & VI	/	/	/	/	/	/	/	/	/	/	10	S.Abinaya

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10	912619105003	ABITHA P	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	P.Abitha	08
11	912619105004	ARTHY N	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	19. Arthy	10
12	912619105005	DEEPIKA R	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	D. Deepa	10
13	912619105007	NISHA S	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	S. Nisha	10
14	912619105008	PAVITHRA M	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	M. Preet	10
15	912619105009	PRAGADEESHWARI A	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	A. Pragadeeshwari	09
16	912619105010	SIVARANJANI S	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	S. Sivaranyajay	10
17	912619105301	RAGAVI R	III & VI	/	/	/	/	/	/	/	/	/	/	/	/	/	/	R. Ragavi	10
18	912618105001	AARTHI G	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	G. Arthi	10
19	912618105002	AASHA R	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	R. Asha	10
20	912618105003	AGARI S	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	S. Agari	09
21	912618105004	JEEVITHA R	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	P. Jeevitha	09
22	912618105005	NISHA K	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	J. Nisha	08
23	912618105006	RAMANA R	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	R. Ramana	10
24	912618105007	SNEHA S	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	S. Sneha	10
25	912618105301	VINOTHINI V	IV & VIII	/	/	/	/	/	/	/	/	/	/	/	/	/	/	V. Vinod	09



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COURSE COORDINATOR



HOB/EEE
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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Report on Value Added Course

Title:	ELECTRICAL SAFETY				
Resource Person:	Mrs. B.PRIYA Assistant professor, EEE department, SBECW.				
Date of conduct from :	07.03.2022	To:	11.03.2022	Duration:	30 Hours
Organized Department :	ELECTRICAL AND ELECTRONICS ENGINEERING				
Participant Year:	2/ 3 /4	Semester:	EVEN	No. of Students Registered :	25
Venue:	TUTORIAL HALL:42,SBECW				

Outcome of Value Added Course (VAC)

At the end of the Course, Students can able to

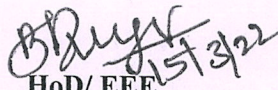
- Explain about the objectives of safety and security measures, principles of electrical safety.
- Describe about the types of electrical shocks, Medical analysis of electric shocks and its effects.
- Obtain the insight about safety precautions against shocks, burns.
- Comprehend about the Electrical safety in residential, commercial
- Demonstrate about Principles of Safety Management, Management Safety Policy.
- Illustrate about the Safety organization, safety auditing. Review of IE rules and acts and their significance.

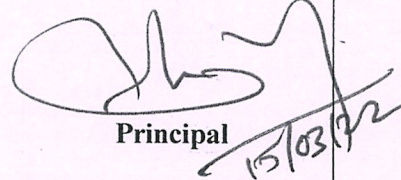
No. of students successfully completed the VAC course is 25 students based on the following assessment process.

Assessment Process

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


Course Coordinator


HoD/ EEE
HOD EEE


Principal

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PUDUKKOTTAI - 622 303.

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KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT


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KAIKKURICHI, PUDUKKOTTAI-622303

DEPARTMENT OF EEE

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. KAYALVIZHI K (912620105001), II year has successfully completed the Certificate Course on "ELECTRICAL SAFETY" held at the college from 7th March 2022 to 11th March 2022 (5 Days).

COURSE COORDINATOR

HOD/EEE

PRINCIPAL

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

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KAIKKURICHI, PUDUKKOTTAI-622303

DEPARTMENT OF EEE

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. AASHIKA R (912619105001), III year has successfully completed the Certificate Course on "ELECTRICAL SAFETY" held at the college from 7th March 2022 to 11th March 2022 (5 Days).

B. S. Thilagavathi

COURSE COORDINATOR

B. S. Thilagavathi

HOD/EEE

B. S. Thilagavathi

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

SRI BHARATHI ENGINEERING

COLLEGE FOR WOMEN

Kaikkurichi - 622-303, Pudukkottai Dt.



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DEPARTMENT OF EEE

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. AARTHI G (912618105001), IV year has successfully completed the Certificate Course on "ELECTRICAL SAFETY" held at the college from 7th March 2022 to 11th March 2022 (5 Days).

COURSE COORDINATOR

HOD/EEE **Dr. S.THILAGAVATHI M.E., Ph.D.**, PRINCIPAL
PRINCIPAL

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student:

Year/Sem:

AU Reg.No:

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

1. One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.

- (a) High (b) Low (c) Smooth (d) Adequate

2. The Prohibited Approach Boundary is considered the same as making _____

- (a) Insulation (b) Confluence (c) Contact (d) Pastry

3. _____ use caution when working near electricity.

- (a) Always (b) Never (c) Rarely (d) Sometimes

4. _____ is the flow of electrons around a circuit

- (a) Current (b) Electricity (c) Power (d) Voltage

5. _____ workers have little or no training working on or near electricity.

- (a) Pipeline (b) Qualified (c) Rescue (d) Unqualified


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6. Electrical hazards include shock, electrical arcs and blasts, and _____ or faulty equipment

- (a) Broken (b) Double-insulated (c) Polished (d) Secure

7. Avoid working in _____ conditions

- (a) Cold (b) Dry (c) Sunny (d) Wet

8. _____ gives a stray current somewhere to go and keeps workers from becoming part of the circuit.

- (a) De-energizing (b) Energizing (c) Grounding (d) Guarding

9. Specially designed PPE for electrical work includes _____ insulating gloves, matting, blankets, and covers.

- (a) Plastic (b) Rubber (c) Steel (d) Wood.

10. _____ tools are encased in plastic and prevent the user from getting electrocuted if the tool develops a short circuit.

- (a) Corded (b) Double-insulated (c) Green colored (d) Grounded

11. _____ all electrical equipment before use.

- (a) Clean (b) Inspect (c) Organize (d) Label

12. _____ is a measurement of how much energy you are using each second.

- (a) Distance (b) Power (c) Volume (d) Weight

13. Gloves used for electrical protection must be electrically tested every...

- (a) 3months (b) 6months (c) 12months (d) Never


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14. One of the three generally recognized hazards of electrical work is ____.
- (a) Arc Flash (b) Cuts (c) Falls (d) all the above.
15. Which is the "Can't Let Go" range of current flow?
- (a) 3-9 ma (b) 9-25 ma (c) 25-60 ma (d) 1-3 ma
16. The secondary of a current transformer must never be _____ while energized.
- (a) Grounded (b) Shortened (c) Examined (d) Opened
17. The minimum allowable work space around electrical equipment is _____ inches deep.
- (a) 36 (b) 48 (c) 24 (d) 30
18. A Safety Electrical One Line Diagram should be used to _____ all sources of electrical energy.
- (a) Identify (b) Castigate (c) Evaluate (d) Modify
19. Work performed on an electrical system within reaching distance of energized components is _____ work
- (a) Energized (b) Essential (c) Safe (d) Unavoidable
20. What is the full form of ABC in first aid?
- (a) Anyway, Breathing, Circulation (b) Airway, Breathing, Circulation
- (c) Anyway, Blood, Circulation (d) Airway, Blood, Chest

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER
CERTIFICATE COURSE
ELECTRICAL SAFETY
ANSWER KEY FOR MCQ

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


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ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student: K. Kayalvighi

18
20

Year/Sem: II / IV

AU Reg.No: 912620105001

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

- One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.
(a) High (b) Low (c) Smooth (d) Adequate
- The Prohibited Approach Boundary is considered the same as making _____
(a) Insulation (b) Confluence (c) Contact (d) Pastry
- _____ use caution when working near electricity.
(a) Always (b) Never (c) Rarely (d) Sometimes
- _____ is the flow of electrons around a circuit
(a) Current (b) Electricity (c) Power (d) Voltage
- _____ workers have little or no training working on or near electricity.
(a) Pipeline (b) Qualified (c) Rescue (d) Unqualified

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6. Electrical hazards include shock, electrical arcs and blasts, and _____ or faulty equipment
- (a) Broken (b) Double-insulated (c) Polished (d) Secure
7. Avoid working in _____ conditions
- (a) Cold (b) Dry (c) Sunny (d) Wet
8. _____ gives a stray current somewhere to go and keeps workers from becoming part of the circuit.
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- (a) Clean (b) Inspect (c) Organize (d) Label
12. _____ is a measurement of how much energy you are using each second.
- (a) Distance (b) Power (c) Volume (d) Weight
13. Gloves used for electrical protection must be electrically tested every...
- (a) 3months (b) 6months (c) 12months (d) Never


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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

14. One of the three generally recognized hazards of electrical work is ____.
- (a) Arc Flash (b) Cuts (c) Falls (d) all the above.
15. Which is the "Can't Let Go" range of current flow?
- (a) 3-9 ma (b) 9-25 ma (c) 25-60 ma (d) 1-3 ma
16. The secondary of a current transformer must never be _____ while energized.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student: R. Aashika

18
20

Year/Sem: III / VI

AU Reg.No: 912619105001

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

1. One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.

- (a) High (b) Low (c) Smooth (d) Adequate

2. The Prohibited Approach Boundary is considered the same as making _____

- (a) Insulation (b) Confluence (c) Contact (d) Pastry

3. _____ use caution when working near electricity.

- (a) Always (b) Never (c) Rarely (d) Sometimes

4. _____ is the flow of electrons around a circuit

- (a) Current (b) Electricity (c) Power (d) Voltage

5. _____ workers have little or no training working on or near electricity.

- (a) Pipeline (b) Qualified (c) Rescue (d) Unqualified


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6. Electrical hazards include shock, electrical arcs and blasts, and _____ or faulty equipment
- (a) Broken (b) Double-insulated (c) Polished (d) Secure
7. Avoid working in _____ conditions
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14. One of the three generally recognized hazards of electrical work is ____.
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACADEMIC YEAR 2021-2022 / EVEN SEMESTER

CERTIFICATE COURSE

ELECTRICAL SAFETY

Name of student: G. Aarthi

18
20

Year/Sem: IV / VIII

AU Reg.No: 912618105001

MULTIPLE CHOICE QUESTION (20 X1 =20 MARKS)

- One of the main functions of personal protective grounds is to provide a _____ impedance path for a short circuit.
(a) High (b) Low (c) Smooth (d) Adequate
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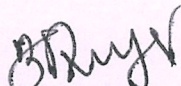
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

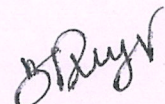
ACADEMIC YEAR 2021-2022 / EVEN SEMESTER
MARK SHEET FOR CERTIFICATE COURSE-ELECTRICAL SAFETY

S.NO	REG. NO	NAME	YEAR/ SEM	ATTENDANCE 50% (A)		VAC –MCQ 50%(B)		OVERALL MARK (A+B)
				No of Session Attended	MARKS	No of Correct Answer	MARKS	
1	912620105001	KAYALVIZHI K	II & IV	10	100	18	90	95
2	912620105002	RAMADEVI S	II & IV	9	90	20	100	88
3	912620105003	SRINANTHANA S	II & IV	10	100	18	90	95
4	912620105302	KAVIYA R	II & IV	10	100	19	95	98
5	912620105303	KOPPERUNDEVI S	II & IV	10	100	17	85	93
6	912620105304	NARMATHA DEVI K	II & IV	8	80	16	80	78
7	912620105305	SRIBHARATHI S	II & IV	10	100	15	75	88
8	912619105001	AASHIKA R	III & VI	9	90	18	90	83
9	912619105002	ABINAYA S	III & VI	10	100	19	95	98
10	912619105003	ABITHA P	III & VI	8	80	17	85	84
11	912619105004	ARTHY N	III & VI	10	100	19	95	98
12	912619105005	DEEPIKA R	III & VI	10	100	15	75	88
13	912619105007	NISHA S	III & VI	10	100	18	90	95
14	912619105008	PAVITHRA M	III & VI	10	100	19	95	98
15	912619105009	PRAGADEESHWARI A	III & VI	9	90	18	90	87


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16	912619105010	SIVARANJANI S	III & VI	10	100	17	85	93
17	912619105301	RAGAVI R	III & VI	10	100	16	80	90
18	912618105001	AARTHI G	IV & VIII	10	100	18	90	95
19	912618105002	AASHA R	IV & VIII	10	83	17	85	87
20	912618105003	AGARI S	IV & VIII	9	90	19	95	98
21	912618105004	JEEVITHA R	IV & VIII	9	90	20	100	96
22	912618105005	NISHA K	IV & VIII	8	80	15	75	79
23	912618105006	RAMANA R	IV & VIII	10	100	19	95	98
24	912618105007	SNEHA S	IV & VIII	10	100	18	90	95
25	912618105301	VINOTHINI V	IV & VIII	9	90	17	85	80


COURSE COORDINATOR


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