



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 CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD 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:	SMART MATERIALS AND MEASURING TECHNIQUES				
Resource Person:	Er.M.Sakthivel, B.E., M.Sc (Rev)., Site Engineer & Supervisor, Kamaal Constructions, Aranthangi.				
Date of conduct from :	30.11.2020	To:	05.12.2020	Duration:	36 Hours
Organized Department :	CIVIL ENGINEERING				
Participant Year:	2/ 3 /4	Semester:	ODD	No. of Students Registered :	27
Venue:	Online mode Google Meet: https://meet.google.com/qbb-gung-rps				

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

Date: 25/11/2020


DEPARTMENT CIRCULAR

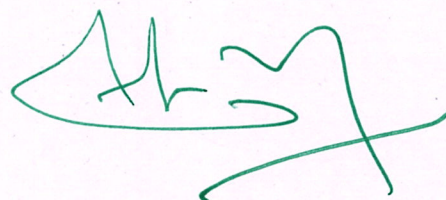
Value added course offered by the Department of Civil Engineering for all Second, Third & Final year Civil Engineering students on “Smart Materials and Measuring Techniques” by Kamaal Constructions from 30.11.2020 to 05.12.2020 through online platform. Certificates will be issued to the eligible participants at the end of the Course.

S.No.	Name of the Course	Resource Person
1.	Smart Materials and Measuring Techniques	Er.M.Sakthivel, B.E., M.Sc (Rev)., Site Engineer & Supervisor, Kamaal Constructions, Aranthangi.

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


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

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

Value Added Course on “Smart Materials and Measuring Techniques”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Smart Materials and Structures	3	30.11.2020
2	Instrumented structures functions and response	3	30.11.2020
3	Strain Measuring Techniques using Electrical strain gauges	3	01.12.2020
4	Wheatstone bridges, Strain Rosettes	3	01.12.2020
5	Physical Measurement using Piezo Electric Strain measurement	3	02.12.2020
6	Chemical and Bio-Chemical sensing in structural Assessment	3	02.12.2020
7	Actuator materials applications	3	03.12.2020
8	Electro magnetic actuation	3	03.12.2020
9	Data Acquisition and Processing in smart materials	3	04.12.2020
10	Sensors as Geometrical Processors	3	04.12.2020
11	Constant Voltage, Constant Current and Pulse Drive Methods	3	05.12.2020
12	Linear and Non-Linear , Passive, Semi-Active and Active Control, Feedback and Feed forward Control Strategies	3	05.12.2020
Total Hours		36	-


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ACADEMIC YEAR 2020-2021 (ODD SEM)

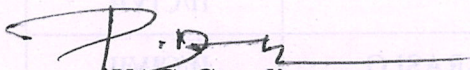
STUDENTS PARTICIPATION LIST-VAC PROGRAM


SMART MATERIALS AND MEASURING TECHNIQUES

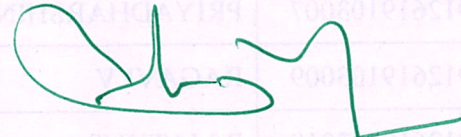
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912619103001	AJITHA T	II/CIVIL
2	912619103002	ARULJENIFAR C	II/CIVIL
3	912619103003	DIVYA V	II/CIVIL
4	912619103004	MANGAIYARKARASI G	II/CIVIL
5	912619103005	MUTHULAKSHMI S	II/CIVIL
6	912619103006	PRAVEENA S	II/CIVIL
7	912619103007	PRIYADHARSHINI K	II/CIVIL
8	912619103009	RAGAVI V	II/CIVIL
9	912619103010	RAJATHI T	II/CIVIL
10	912619103301	LILLY JOHN J	II/CIVIL
11	912619103302	BHUVANI S	II/CIVIL
12	912618103003	MAHESHWARI V	III/CIVIL
13	912618103005	MEENACHI K	III/CIVIL
14	912618103008	SATHYA M	III/CIVIL
15	912618103009	SRIVIDHYA S	III/CIVIL
16	912618103010	UMAMAHESWARI K	III/CIVIL
17	912617103001	CHANDRIKA C	IV/CIVIL
18	912617103002	DHESIKAPARTHI D	IV/CIVIL

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19	912617103003	KARTHIKA K	IV/CIVIL
20	912617103004	KASTHURI K	IV/CIVIL
21	912617103005	MONIKA K	IV/CIVIL
22	912617103006	MUTHUMEENA P	IV/CIVIL
23	912617103007	POTHUMPEN A	IV/CIVIL
24	912617103008	PRIYADHARSHINI S	IV/CIVIL
25	912617103009	RAJESWARI J	IV/CIVIL
26	912617103010	SIVAPRIYA S	IV/CIVIL
27	912617103701	LAKSHMI A	IV/CIVIL


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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 (ODD SEM)

ATTENDANCE SHEET FOR VALUE ADDED COURSE- SMART MATERIALS AND MEASURING TECHNIQUES

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE: 30.11.20		DATE: 01.12.20		DATE: 02.12.20		DATE: 03.12.20		DATE: 04.12.20		DATE: 05.12.20		NO OF SESSIONS ATTENDED
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	912619103001	AJITHA T	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	a	11
2	912619103002	ARULJENIFAR C	II/CIVIL	1	a	1	1	1	1	1	1	1	1	1	1	11
3	912619103003	DIVYA V	II/CIVIL	1	1	1	1	1	a	1	a	1	1	1	1	10
4	912619103004	MANGAIYARKARASI G	II/CIVIL	1	1	1	1	1	1	1	1	1	a	1	1	11
5	912619103005	MUTHULAKSHMI S	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	12
6	912619103006	PRAVEENA S	II/CIVIL	1	a	1	a	1	1	1	1	1	1	1	1	10
7	912619103007	PRIYADHARSHINI K	II/CIVIL	1	1	1	1	1	a	1	1	1	1	1	1	11
8	912619103009	RAGAVI V	II/CIVIL	1	1	1	1	1	1	1	1	1	a	1	1	11
9	912619103010	RAJATHI T	II/CIVIL	1	1	1	1	1	1	1	a	1	1	1	a	10
10	912619103301	LILLY JOHN J	II/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	11
11	912619103302	BHUVANI S	II/CIVIL	1	1	1	1	1	1	1	1	1	a	1	1	11

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12	912618103003	MAHESHWARI V	III/CIVIL	/	/	/	a	/	/	/	a	/	/	/	/	10
13	912618103005	MEENACHI K	III/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
14	912618103008	SATHYA M	III/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
15	912618103009	SRIVIDHYA S	III/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
16	912618103010	UMAMAHESWARI K	III/CIVIL	/	/	/	/	/	/	/	/	/	/	/	a	11
17	912617103001	CHANDRIKA C	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
18	912617103002	DHESIKAPARTHI D	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
19	912617103003	KARTHIKA K	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
20	912617103004	KASTHURI K	IV/CIVIL	/	/	/	/	/	/	/	a	/	/	/	/	11
21	912617103005	MONIKA K	IV/CIVIL	/	/	/	/	/	/	/	/	a	/	/	/	11
22	912617103006	MUTHUMEENA P	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
23	912617103007	POTHUMPEN A	IV/CIVIL	/	/	/	/	/	a	/	/	/	/	/	/	11
24	912617103008	PRIYADHARSHINI S	IV/CIVIL	/	a	/	/	/	/	/	/	a	/	/	/	10
25	912617103009	RAJESWARI J	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
26	912617103010	SIVAPRIYA S	IV/CIVIL	/	/	/	a	/	/	/	/	/	/	/	/	11
27	912617103701	LAKSHMI A	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12

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Report on Value Added Course

Title: Smart Materials and Measuring Techniques

Resource Person:

Er.M.Sakthivel, B.E., M.Sc (Rev).,
Site Engineer & Supervisor,
Kamaal Constructions,
Aranthangi.

Date of conduct from : 30.11.2020 To: 05.12.2020 Duration: 36 Hours

Organized Department : CIVIL ENGINEERING

Participant Year: 2, 3, 4 Semester: ODD No. of Students Registered : 27

Venue: Online mode Google Meet: <https://meet.google.com/qbb-gung-rps>

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

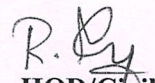
- Describe and interpret how materials change properties as a function of external stimuli and their implications for engineering systems.
- Investigate, analyze and evaluate complex information, concepts, and methodologies relating to the cutting-edge developments in smart materials for engineering systems.
- Describe and identify the basic fabrication and characterization techniques of Engineering devices using smart materials.
- Derive conceptual designs for the production of engineering devices using smart materials.
- Identify, select and use smart materials for the fabrication of engineering devices in different application areas.

No. of students successfully completed the VAC course is **27 students** based on the following assessment process.

Assessment Process

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


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PUDUKKOTTAI DISTRICT


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



KAMAAL CONSTRUCTION

24/4, Athippa Complex, Bharathidasan Street, Aranthangi-614616

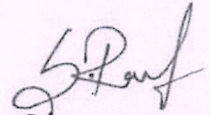
Er. S. Rawuthier Appa B. E., M. Sc. (REV)

Licensed Building Surveyor

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Ajitha T of II Year B.E-Civil Engineering, Sri Bharathi Engineering College for Women, Pudukkottai has successfully completed the Value Added course on "Smart Materials And Measuring Techniques" conducted from 30.11.2020 to 05.12.2020 (6days) during the Academic year 2020-2021.


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


Signature

Er. S. Rawuthier Appa B. E., M. Sc. (REV)
Licensed Building Surveyor



KAMAAL CONSTRUCTION

24/4, Athippa Complex, Bharathidasan Street, Aranthangi-614616

Er. S. Rawuther Appa B. E., M. Sc. (REV)

Licensed Building Surveyor

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Meenachi K of III Year B.E-Civil Engineering, Sri Bharathi Engineering College for Women, Pudukkottai has successfully completed the Value Added course on "Smart Materials And Measuring Techniques" conducted from 30.11.2020 to 05.12.2020 (6days) during the Academic year 2020-2021.

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

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COLLEGE FOR WOMEN
Kaikkurchi - 622 303, Pudukkottai DL**

Signature

Er. S. Rawuther Appa B. E., M. Sc. (REV)

Licensed Building Surveyor



KAMAAL CONSTRUCTION

24/4, Athippa Complex, Bharathidasan Street, Aranthangi-614616

Er. S. Rawuther Appa B. E., M. Sc. (REV)

Licensed Building Surveyor

CERTIFICATE OF PARTICIPATION

This is to certify that Ms. Karthika K of IV Year B.E-Civil Engineering, Sri Bharathi Engineering College for Women, Pudukkottai has successfully completed the Value Added course on "Smart Materials And Measuring Techniques" conducted from 30.11.2020 to 05.12.2020 (6days) during the Academic year 2020-2021.

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Kaikkurchi - 622 303, Pudukkottai Dt.

Signature

Er. S. Rawuther Appa B. E., M. Sc. (REV)

Licensed Building Surveyor



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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

Name of the Student :

Year/Sem:

AU Register Number:

Value Added Course on “Smart Materials and Measuring Techniques”

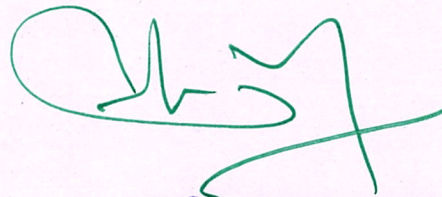
MCQ QUESTIONS (25X4 = 100 Marks)

1. Monel metal is an alloy of
a) Molybdenum and nickel
b) Nickel and copper
c) Molybdenum and aluminium
d) Molybdenum and zinc
2. Thermoplastic resins are those polymers, which
a) Has decreased plasticity at increasing temperature
b) Cannot be moulded
c) Easily deform under pressure at high temperature
d) None of these
3. Constantan used in thermocouples is an alloy of
a) Iron & copper
b) Copper & aluminium
c) Lead & tin
d) None of these
4. The heat treatment process applied to cold formed steel parts is
a) Normalizing
b) Tempering
c) Artificial ageing
d) Solution annealing
5. A hardened steel essentially contains
a) Sorbite
b) Troostite
c) Martensite
d) None of these
6. Silicone rubber is not resistant to the corrosive action of
a) Sulphuric acid (10%)
b) Sulphuric acid (95%)
c) Ether
d) Both (b) and (c)
7. Which of the following mechanical properties of a material is most structure insensitive?
a) Modulus of elasticity (young's modulus)
b) Toughness
c) Percentage reduction of area
d) Tensile strength
8. Carbon percentage in medium carbon steel is around
a) 0.1 to 0.35
c) 0.8 to 1.4


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- b) 0.35 to 0.5
d) 1 to 1.5
9. Aluminium as a material of construction suffers from the disadvantage of
a) Very high cost
b) Rather low tensile strength
c) Very low strength to weight ratio
d) Scarce availability
10. Coke oven regenerators are made of _____ bricks.
a) Fire clay
b) Silica
c) Low thermal conductivity
d) High electrical conductivity
11. Perspex is nothing but
a) Acrylic sheet
b) An elastomer
c) An alloy of lead and tin
d) Aluminium foil clad with Bakelite
12. Cementite is
a) Fe_3C chemically
b) A compound of carbon and iron
c) Characterized by an orthorhombic crystal structure
d) All (a), (b) and (c)
13. High degree of toughness is a must for
a) High speed steel
b) Cold work tool steel
c) Cold work tool steel
d) None of these
14. The phenomenon in which slow extension of material takes place with the time at constant load is called _____
Diameter of Round Steel Fiber lies in the range of _____ mm.
a) Plasticity
b) Creep
c) Elasticity
d) Ductility
15. Ability of a material to _____ is indicated by its damping capacity.
a) Withstand compression
b) Absorb vibration
c) Absorb shock
d) None of these
16. A material is called 'ductile', if it can
a) Drawn into wires
b) Hammered to a thin sheet
c) Fractured without deformation
d) Made lustrous by heating it
17. Presence of manganese in alloy steel improves its
a) Corrosion resistance
b) Cutting ability
c) Abrasion resistance & toughness
d) Elasticity & creep resistance
18. Which of the following undergoes granular fracture?
a) Wrought iron
b) Steel
c) Cast iron
d) None of these
19. The most distinguished property of malleable cast iron is its high
a) Ductility
b) Hardness
c) Malleability
d) None of these
20. Teflon (PTFE) is corroded by

- a) Hydrochloric acid (10%)
b) Hydrochloric acid (95%)
- c) Sulphuric acid
d) None of these
21. Amount of energy that a material can absorb before its fracture is a measure of its
a) Toughness
b) Resilience
c) Malleability
d) Ductility
22. Vycor, a widely used material for making 'thermal wells' in temperature measurement, is a
a) Cermet
b) Glass
c) Thermosetting plastic
d) Metallic alloy
23. Karbate is
a) A mixture of iron dust and saw dust
b) Carbon impregnated with resin (usually Bakelite)
c) An acid resistant material
d) Both (b) and (c)
24. Invar used in thermocouples is an alloy of nickel and
a) Iron
b) Copper
c) Chromium
d) Lead
25. Ball bearings are generally made of
a) Plain carbon steel
b) Chrome carbon steel
c) Stainless steel
d) Malleable cast iron



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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2021-2022 / ODD SEMESTER

Value Added Course on “Smart Materials and Measuring Techniques”

ANSWER KEY

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

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MCA Test - Smart materials & Measuring Techniques

Name: V. Ragavi
Reg. No: 912619103009

22
25

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

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Name : K. Kasthuri

Reg. No : 912617103004

Value Added Course MCQ Test

- Smart materials and measuring techniques .

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

20
25

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MCA Test on Value added
Smart materials & Measuring Techniques ^{course}

Name: Umamaheshwaran

Reg NO: 912618103010

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

- 21) a ✓
- 22) b ✓
- 23) d ✓
- 24) a ✓
- 25) b ✓

20
25

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

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

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 (ODD SEM)

MARK SHEET FOR VALUE ADDED COURSE- SMART MATERIALS AND MEASURING TECHNIQUES

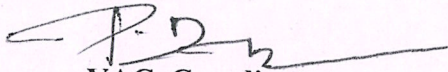
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912619103001	AJITHA T	II/CIVIL	11	92	20	80	86
2	912619103002	ARULJENIFAR C	II/CIVIL	11	92	21	84	88
3	912619103003	DIVYA V	II/CIVIL	10	83	18	72	78
4	912619103004	MANGAIYARKARASI G	II/CIVIL	11	92	19	76	84
5	912619103005	MUTHULAKSHMI S	II/CIVIL	12	100	20	80	90
6	912619103006	PRAVEENA S	II/CIVIL	10	83	19	76	80



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7	912619103007	PRIYADHARSHINI K	II/CIVIL	11	92	21	84	88
8	912619103009	RAGAVI V	II/CIVIL	11	92	22	88	90
9	912619103010	RAJATHI T	II/CIVIL	10	83	17	68	76
10	912619103301	LILLY JOHN J	II/CIVIL	11	92	19	76	84
11	912619103302	BHUVANI S	II/CIVIL	11	92	17	68	80
12	912618103003	MAHESHWARI V	III/CIVIL	10	83	17	68	76
13	912618103005	MEENACHI K	III/CIVIL	12	100	20	80	90
14	912618103008	SATHYA M	III/CIVIL	12	100	21	84	92
15	912618103009	SRIVIDHYA S	III/CIVIL	12	100	22	88	94
16	912618103010	UMAMAHESWARI K	III/CIVIL	11	92	20	80	86
17	912617103001	CHANDRIKA C	IV/CIVIL	12	100	22	88	94
18	912617103002	DHESIKAPARTHI D	IV/CIVIL	12	100	20	80	90
19	912617103003	KARTHIKA K	IV/CIVIL	12	100	22	88	94
20	912617103004	KASTHURI K	IV/CIVIL	11	92	20	80	86

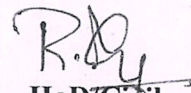
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21	912617103005	MONIKA K	IV/CIVIL	11	92	21	84	88
22	912617103006	MUTHUMEENA P	IV/CIVIL	12	100	22	88	94
23	912617103007	POTHUMPEN A	IV/CIVIL	11	92	20	80	86
24	912617103008	PRIYADHARSHINI S	IV/CIVIL	10	83	19	76	80
25	912617103009	RAJESWARI J	IV/CIVIL	12	100	23	92	96
26	912617103010	SIVAPRIYA S	IV/CIVIL	11	92	20	80	86
27	912617103701	LAKSHMI A	IV/CIVIL	12	100	21	84	92


VAC Coordinator



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