



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 – 2

Teaching-Learning and Evaluation

Submitted by

IQAC

Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women



Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2020-2021

PARTICIPATIVE LEARNING

CIVIL ENGINEERING

Activity	Number of Students attended	Page No.
Value Added Course (VAC)	54	3
TOTAL STUDENTS ATTENDED	54	-



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

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Criteria 2

Teaching-Learning and Evaluation

350

Key Indicator- 2.3. Teaching- Learning Process (40)

2020-2021

CIVIL ENGINEERING

PARTICIPATIVE LEARNING

VALUE ADDED COURSE



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

Date: 25/11/2020


DEPARTMENT CIRCULAR

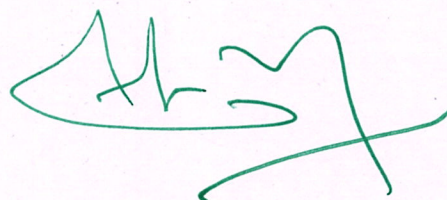
Value added course offered by the Department of Civil Engineering for all Second, Third & Final year Civil Engineering students on “Smart Materials and Measuring Techniques” by Kamaal Constructions from 30.11.2020 to 05.12.2020 through online platform. Certificates will be issued to the eligible participants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


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



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



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DEPARTMENT OF CIVIL ENGINEERING

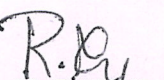
ACADEMIC YEAR 2020-2021 / ODD SEMESTER

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)

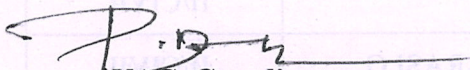
STUDENTS PARTICIPATION LIST-VAC PROGRAM


SMART MATERIALS AND MEASURING TECHNIQUES

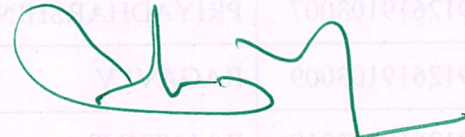
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912619103001	AJITHA T	II/CIVIL
2	912619103002	ARULJENIFAR C	II/CIVIL
3	912619103003	DIVYA V	II/CIVIL
4	912619103004	MANGAIYARKARASI G	II/CIVIL
5	912619103005	MUTHULAKSHMI S	II/CIVIL
6	912619103006	PRAVEENA S	II/CIVIL
7	912619103007	PRIYADHARSHINI K	II/CIVIL
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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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

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

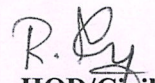
- Describe and interpret how materials change properties as a function of external stimuli and their implications for engineering systems.
- Investigate, analyze and evaluate complex information, concepts, and methodologies relating to the cutting-edge developments in smart materials for engineering 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.

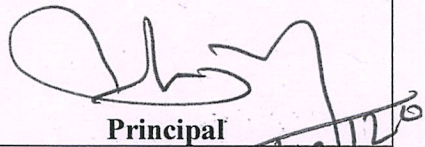
No. of students successfully completed the VAC course is **27 students** based on the following assessment process.

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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KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT


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COLLEGE FOR WOMEN
Kaikkurichi - 622 303, Pudukkottai Dt.



KAMAAL CONSTRUCTION

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

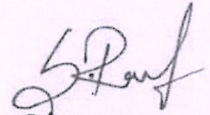
Er. S. Rawuthier Appa B. E., M. Sc. (REV)

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.


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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

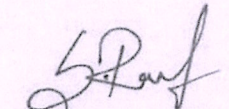
CERTIFICATE OF PARTICIPATION

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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Signature

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

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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”

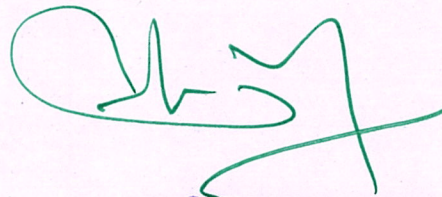
MCQ QUESTIONS (25X4 = 100 Marks)

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

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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DEPARTMENT OF CIVIL ENGINEERING

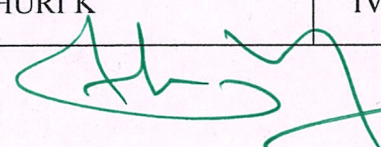
ACADEMIC YEAR 2020-2021 (ODD SEM)

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

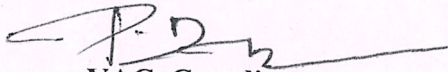
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL MARK(100) (50% of A + 50% of B)
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	
1	912619103001	AJITHA T	II/CIVIL	11	92	20	80	86
2	912619103002	ARULJENIFAR C	II/CIVIL	11	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

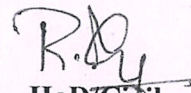

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21	912617103005	MONIKA K	IV/CIVIL	11	92	21	84	88
22	912617103006	MUTHUMEENA P	IV/CIVIL	12	100	22	88	94
23	912617103007	POTHUMPEN A	IV/CIVIL	11	92	20	80	86
24	912617103008	PRIYADHARSHINI S	IV/CIVIL	10	83	19	76	80
25	912617103009	RAJESWARI J	IV/CIVIL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


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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

Date: 21/ 04/2021

DEPARTMENT CIRCULAR

The following Value added course offered by the Department of Civil Engineering for all Second, Third & Final year Civil Engineering students in association with “Shabee Constructions” from 26.04.2021 to 30.4.2021 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.	Construction Management Techniques	Er.K.Basheer Mohamed, B.E, M.Sc(Rev), FIV, Registered Engineer, Shabee Constructions, Pudukkottai.

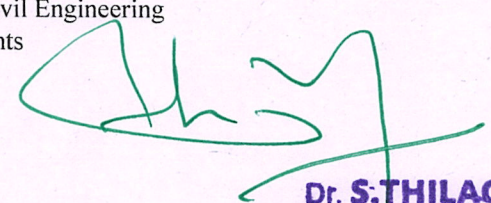
Cc:

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


HoD/Civil

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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

Value Added Course on “Construction Management Techniques”

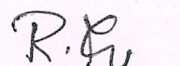
SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Planning and Organizational aspects	3	26.04.2021
2	Constructional planning organizational structure	3	26.04.2021
3	Execution of works, Contracts, Tender and tender notices	3	27.04.2021
4	Measurement of works, Payment of bills	3	27.04.2021
5	Introduction to Human Resource Management	3	28.04.2021
6	Stores, Managing materials and machinery	3	28.04.2021
7	Principles of safety in construction activity	3	29.04.2021
8	Entrepreneurship and management	3	29.04.2021
9	Introduction to small scale Industries	3	30.04.2021
10	Introduction to quality control, T.Q.M and I.S.O 9000	3	30.04.2021
Total Hours		30	-


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ACADEMIC YEAR 2020-2021 (EVEN SEM)

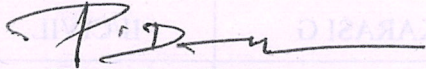
STUDENTS PARTICIPATION LIST-VAC PROGRAM

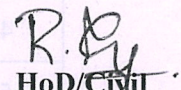
CONSTRUCTION MANAGEMENT TECHNIQUES

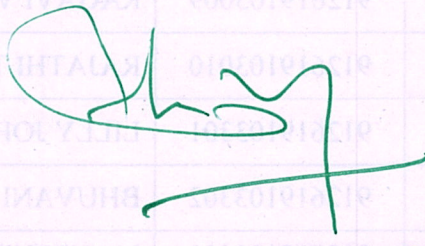
S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	912619103001	AJITHA T	II/CIVIL
2	912619103002	ARULJENIFAR C	II/CIVIL
3	912619103003	DIVYA V	II/CIVIL
4	912619103004	MANGAIYARKARASI G	II/CIVIL
5	912619103005	MUTHULAKSHMI S	II/CIVIL
6	912619103006	PRAVEENA S	II/CIVIL
7	912619103007	PRIYADHARSHINI K	II/CIVIL
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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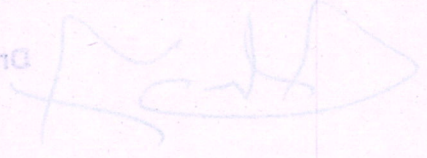
19	912617103003	KARTHIKA K	IV/CIVIL
20	912617103004	KASTHURI K	IV/CIVIL
21	912617103005	MONIKA K	IV/CIVIL
22	912617103006	MUTHUMEENA P	IV/CIVIL
23	912617103007	POTHUMPEN A	IV/CIVIL
24	912617103008	PRIYADHARSHINI S	IV/CIVIL
25	912617103009	RAJESWARI J	IV/CIVIL
26	912617103010	SIVAPRIYA S	IV/CIVIL
27	912617103701	LAKSHMI A	IV/CIVIL


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DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 (EVEN SEM)

ATTENDANCE SHEET FOR VALUE ADDED COURSE- CONSTRUCTION MANAGEMENT TECHNIQUES

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE: 26.04.21		DATE: 27.04.21		DATE: 28.04.21		DATE: 29.04.21		DATE: 30.04.21		NO OF SESSIONS ATTENDED
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	912619103001	AJITHA T	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10
2	912619103002	ARULJENIFAR C	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10
3	912619103003	DIVYA V	II/CIVIL	/	a	/	/	/	/	/	a	/	/	8
4	912619103004	MANGAIYARKARASI G	II/CIVIL	/	/	/	a	/	/	/	/	/	a	8
5	912619103005	MUTHULAKSHMI S	II/CIVIL	/	/	/	/	/	a	/	/	/	/	9
6	912619103006	PRAVEENA S	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10
7	912619103007	PRIYADHARSHINI K	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10
8	912619103009	RAGAVI V	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10
9	912619103010	RAJATHI T	II/CIVIL	/	/	/	/	/	/	/	/	/	/	10
10	912619103301	LILLY JOHN J	II/CIVIL	/	/	/	/	/	/	/	/	/	/	9
11	912619103302	BHUVANI S	II/CIVIL	/	/	/	/	/	a	/	/	/	a	8

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

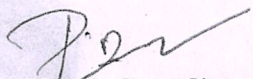
PRINCIPAL

SRI BHARATHI ENGINEERING

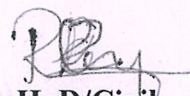
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12	912618103003	MAHESHWARI V	III/CIVIL	/	/	/	a	/	/	/	a	/	/	8
13	912618103005	MEENACHI K	III/CIVIL	/	/	/	/	/	a	/	/	/	/	9
14	912618103008	SATHYA M	III/CIVIL	/	/	/	/	/	/	/	/	/	/	10
15	912618103009	SRIVIDHYA S	III/CIVIL	/	/	/	/	/	/	/	/	/	/	10
16	912618103010	UMAMAHESWARI K	III/CIVIL	/	a	/	/	/	/	/	/	/	/	9
17	912617103001	CHANDRIKA C	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	10
18	912617103002	DHESIKAPARTHI D	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	10
19	912617103003	KARTHIKA K	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	10
20	912617103004	KASTHURI K	IV/CIVIL	/	/	/	a	/	/	/	/	/	/	9
21	912617103005	MONIKA K	IV/CIVIL	/	/	/	/	/	/	/	/	a	/	9
22	912617103006	MUTHUMEENA P	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	10
23	912617103007	POTHUMPEN A	IV/CIVIL	/	/	/	/	/	a	/	/	/	/	9
24	912617103008	PRIYADHARSHINI S	IV/CIVIL	/	a	/	/	/	/	/	a	/	/	8
25	912617103009	RAJESWARI J	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	10
26	912617103010	SIVAPRIYA S	IV/CIVIL	/	/	/	/	/	/	/	a	/	/	9
27	912617103701	LAKSHMI A	IV/CIVIL	/	/	/	/	/	/	/	/	/	/	10


VAC Coordinator


Dr. S. THILAGAVATHI M.E., Ph.D.,
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Report on Value Added Course

Title:	Construction Management Techniques				
Resource Person:	Er.K.Basheer Mohamed, B.E, M.Sc(Rev), FIV, Registered Engineer, Shabee Constructions, Pudukkottai.				
Date of conduct from :	26.04.2021	To:	30.04.2021	Duration:	30 Hours
Organized Department :	CIVIL ENGINEERING				
Participant Year:	2, 3, 4	Semester:	EVEN	No. of Students Registered :	27
Venue:	Online mode google meet: https://meet.google.com/nax-eygz-nky				

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

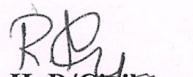
- Understand the process of Managing Projects with Live examples.
- Know the role of a Construction/project manager and the skills necessary for construction project management field.
- Plan out and properly execute any construction project despite the Size, budget and/or Complexity.
- Explain the process of Planning & Scheduling.
- Manage time and avoid falling behind Schedule.
- Manage cost and how to manage your project budget.
- Explain the Safety & Quality Management process from Scratch.

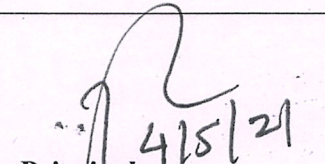
No. of students successfully completed the VAC course is **27 students** based on the following assessment process.

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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PRINCIPAL

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KAIKKURICHI - 622 303.
PUDUKKOTTAI DISTRICT


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SHABEE CONSTRUCTION

Shop #12, KP Super Complex, TS No: 4128, South 3rd Street, Near Supreme Cycles, Pudukkottai

CERTIFICATE OF PARTICIPATION

This Certificate is awarded to Ms. RAJATHI T, Studying in B.E-Civil Engineering, II Year, Sri Bharathi Engineering College for Women for successfully completing the Value Added Course on "Construction Management Techniques" Conducted from 26.04.2021-30.04.2021 (5 days) during the Academic year 2020-2021.

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

Registered Engineer,
Shabee Constructions.



SHABEE CONSTRUCTION

Shop #12, KP Super Complex, TS No: 4128, South 3rd Street, Near Supreme Cycles, Pudukkottai

CERTIFICATE OF PARTICIPATION

This Certificate is awarded to Ms. MEENACHI K, Studying in B.E-Civil Engineering, **III** Year, Sri Bharathi Engineering College for Women for successfully completing the Value Added Course on “Construction Management Techniques” Conducted from 26.04.2021-30.04.2021 (5 days) during the Academic year 2020-2021.

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

Registered Engineer,
Shabee Constructions.



SHABEE CONSTRUCTION

Shop #12, KP Super Complex, TS No: 4128, South 3rd Street, Near Supreme Cycles, Pudukkottai

CERTIFICATE OF PARTICIPATION

This Certificate is awarded to Ms. POTHUMPEN A, Studying in B.E-Civil Engineering, IV Year, Sri Bharathi Engineering College for Women for successfully completing the Value Added Course on "Construction Management Techniques" Conducted from 26.04.2021-30.04.2021 (5 days) during the Academic year 2020-2021.

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

Registered Engineer,
Shabee Constructions.



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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

Name of the Student :

Year/Sem:

AU Register Number:

Value Added Course on “Construction Management Techniques”

MCQ QUESTIONS (25X4 = 100 Marks)

1. The difference between the time avail-to do a job and the time required to do the job, is known as
 - a) Event
 - b) Float
 - c) Duration
 - d) Constraint
2. A dummy activity
 - a) Is artificially introduced
 - b) Is represented by a dotted line
 - c) Does not consume time
 - d) All the above
3. The area under the Beta distribution curve is divided into two equal parts by
 - a) Most likely time
 - b) Optimistic time
 - c) Pessimistic time
 - d) Expected time
4. The first stage of a construction, is
 - a) Preparation of estimate
 - b) Survey of the site
 - c) Initiation of proposal
 - d) Preparation of tender
5. Sinking fund is
 - a) The fund for rebuilding a structure when its economic life is over
 - b) Raised to meet maintenance costs
 - c) The total sum to be paid to the municipal authorities by the tenants
 - d) A part of the money kept in reserve for providing additional structures and structural modifications
6. Pre-tender stage requires
 - a) Acquisition of land
 - b) Selection of site
 - c) Finalization of alignment of work
 - d) All the above
7. Select the incorrect statement.
 - a) A critical path always begins at the very first event
 - b) A critical path always terminates at the last event
 - c) Critical activities control the project duration
 - d) Critical activity is the one for which free float is zero


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8. Free float for any activity is defined as the difference between
- Its earliest finish time and earliest start time for its successor activity
 - Its latest start time and earliest start time
 - Its latest finish time and earliest start time for its successor activity
 - Its earliest finish time and latest start time for its successor activity
9. In CPM analysis,
- Emphasis is given to activities
 - Uncertainties are not allowed
 - Activities are represented by arrows
 - All the above
10. If TL is the latest allowable event occurrence time, total activity slack(s), is equal to
- $LST - EST$
 - $LFT - EFT$
 - $TL - EFT$
 - All the above
11. The constraints in case of resource smoothing operation would be
- Resources
 - Project duration time
 - Both resources and project duration time
 - None of the above
12. The time which results in the least possible construction cost of an activity, is known as
- Normal time
 - Slow time
 - Crash time
 - Standard time
13. Various activities of a project, are shown on bar charts by
- Vertical lines
 - Horizontal lines
 - Dots
 - Crosses
14. Total float for any activity is defined as the difference between
- Its latest finish time and earliest start time for its successor activity
 - Its latest start time and earliest finish time
 - Its latest start time and earliest start time
 - Its earliest finish time and earliest start time for its successor activity
15. Pick up the correct statement from the following:
- Earliest expected time is denoted by T_E
 - Latest occurrence time is denoted by T_L
 - Contractual obligation time is denoted by T_s
 - All the above
16. Residential buildings are treated as
- Light construction
 - Heavy construction
 - Industrial construction
 - Private construction
17. Pick up the PERT event from the following:
- Digging of foundation started
 - Digging of foundation completed
 - Laying of concrete started
 - All the above


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18. The process of incorporating changes and rescheduling or replanning is called
- a) Resource levelling
b) Resource smoothening
c) Updating
d) Critical path scheduling
19. Pick up the correct statement from the following:
- a) Programme Evaluation and Review Technique, is event oriented
b) Programme Evaluation and Review Technique is not event oriented
c) Critical Path Method is event oriented
d) Critical Path Method is not event oriented
20. Time and progress chart of a construction, is also known as
- a) Bar chart
b) Gantt chart
c) Modified Mile stone chart
d) All the above
21. The technique for establishing and maintaining priorities among the various jobs of a project, is known as
- a) Event flow scheduling technique
b) Critical ratio scheduling
c) Slotting technique for scheduling
d) Short interval scheduling
22. A CPM family includes
- a) CPA (Critical Path Analysis)
b) CPP (Critical Path Plotted)
c) MCE (Minimum Cost Expenditure)
d) All the above
23. Critical path
- a) Is always longest
b) Is always shortest
c) May be longest
d) May be shortest
24. If a is the optimistic time, b is the pessimistic time and m is most likely time of an activity, the expected time of the activity, is
- a) $(a + m + b)/6$
b) $(a + 2m + b)/6$
c) $(a + 4m + b)/6$
d) $(a + 5m + b)/6$
25. The most suitable type of equipment for compaction of cohesive soils is
- a) Smooth-wheeled rollers
b) Vibratory rollers
c) Sheep foot rollers
d) Tampers



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ACADEMIC YEAR 2020-2021 / EVEN SEMESTER

Value Added Course on “Construction Management Techniques”

ANSWER KEY

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

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Name : Gt. Mangaiyarkare

Reg No : 912619103004

Year : II

Value Added Course on " construction management techniques"

MCA TEST

18
25

Poh

- 1. b ✓
- 2. d ✓
- 3. d ✓
- 4. c ✓
- 5. a ✓
- 6. d ✓
- 7. a ✗
- 8. a ✓
- 9. d ✓
- 10. d ✓
- 11. b ✓
- 12. b ✓
- 13. b ✓
- 14. a ✗

- 15. a ✗
- 16. c ✗
- 17. d ✓
- 18. d ✗
- 19. a ✓
- 20. d ✓
- 21. b ✓
- 22. a ✗
- 23. a ✓
- 24. c ✓
- 25. a ✗

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Name : c. Chandrika

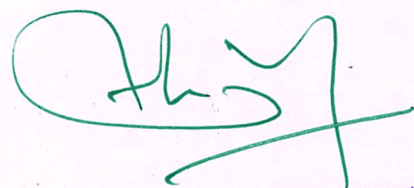
Reg NO: 912617103001

Department : B.E Civil IV year

MCA test - VAC - Construction management Techniques

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


$$\frac{21}{25}$$



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Name: M. Sathya - III

Reg. No: 912618183008

MCA Test - Construction Management Techniques

22
25

P. pm

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

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ACADEMIC YEAR 2020-2021 (EVEN SEM)

MARK SHEET FOR VALUE ADDED COURSE- CONSTRUCTION MANAGEMENT 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	10	100	18	72	86
2	912619103002	ARULJENIFAR C	II/CIVIL	10	100	21	84	92
3	912619103003	DIVYA V	II/CIVIL	8	80	17	68	74
4	912619103004	MANGAIYARKARASI G	II/CIVIL	8	80	18	72	76
5	912619103005	MUTHULAKSHMI S	II/CIVIL	9	90	21	84	87
6	912619103006	PRAVEENA S	II/CIVIL	10	100	20	80	90
7	912619103007	PRIYADHARSHINI K	II/CIVIL	10	100	22	88	94

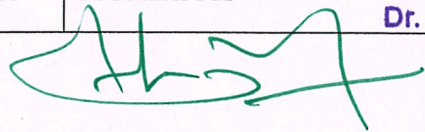
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8	912619103009	RAGAVI V	II/CIVIL	10	100	21	84	92
9	912619103010	RAJATHI T	II/CIVIL	10	100	17	68	84
10	912619103301	LILLY JOHN J	II/CIVIL	9	90	18	72	81
11	912619103302	BHUVANI S	II/CIVIL	8	80	17	68	74
12	912618103003	MAHESHWARI V	III/CIVIL	8	80	17	68	74
13	912618103005	MEENACHI K	III/CIVIL	9	90	19	76	83
14	912618103008	SATHYA M	III/CIVIL	10	100	22	88	94
15	912618103009	SRIVIDHYA S	III/CIVIL	10	100	23	92	96
16	912618103010	UMAMAHESWARI K	III/CIVIL	9	90	20	80	85
17	912617103001	CHANDRIKA C	IV/CIVIL	10	100	21	84	92
18	912617103002	DHESIKAPARTHI D	IV/CIVIL	10	100	20	80	90
19	912617103003	KARTHIKA K	IV/CIVIL	10	100	22	88	94
20	912617103004	KASTHURI K	IV/CIVIL	9	90	19	76	83
21	912617103005	MONIKA K	IV/CIVIL	9	90	20	80	85



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22	912617103006	MUTHUMEENA P	IV/CIVIL	10	100	22	88	94
23	912617103007	POTHUMPEN A	IV/CIVIL	9	90	20	80	85
24	912617103008	PRIYADHARSHINI S	IV/CIVIL	8	80	19	76	78
25	912617103009	RAJESWARI J	IV/CIVIL	10	100	22	88	94
26	912617103010	SIVAPRIYA S	IV/CIVIL	9	90	19	76	83
27	912617103701	LAKSHMI A	IV/CIVIL	10	100	21	84	92


VAC Coordinator



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