



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 ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2021-2022 / 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:	FUNDAMENTALS OF MATLAB AND ITS USES				
Resource Person:	Er.C.Murugan, Senior Project Engineer, Marcello Tech, Trichy- 620 002.				
Date of conduct from :	9.8.2021	To:	13.8.2021	Duration:	30 Hours
Organized Department :	ELECTRONICS AND COMMUNICATION ENGINEERING				
Participant Year:	2, 3,4	Semester:	ODD	No. of Students Registered :	29
Venue:	Seminar Hall, ,Ground Floor, SBECW				

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

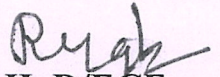
ACADEMIC YEAR 2021-2022/ODD SEMESTER

DEPARTMENT CIRCULAR

Date: 30.07.2021

Value Added Course offered by the Department of ECE will be conducted for Second, Third and Final year students on “**Fundamentals of MATLAB and its Uses**” in association with Marcello tech from 09.08.2021 to 13.08.2021. Certificates will be issued to the eligible participants at the end of the course.

S.No	Name of the Course	Resource Person
1	Fundamentals of MATLAB and its Uses	Er.C.MURUGAN, Senior Project Engineer, Marcello Tech, Ground Floor, Gem Plaza, No-3, SRC College Near, Sankaran Pillai Road, Tiruchirappalli, Tamil Nadu 620002 Mail.Id: info@marcellotech.com


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Cc:

- Principal's Office
- IQAC Coordinator
- Class In charges- II ,III &IV Year
- II ,III & IV Year ECE Students
- Notice Board


Dr. S.THILAGAVATHI M.E., Ph.D.,
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR 2021-2022/ODD SEMESTER

Value Added Course on “Fundamentals of Matlab and its Uses”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Matlab , Overview and Installation setup – Variables, Numbers, Operators, Expressions	3	9.8.2021
2	Input and output Vectors, Arrays – Matrices	3	9.8.2021
3	Built-in Functions User defined Functions	3	10.8.2021
4	Files and File Management – Import/Export Basic 2D, 3D plots, Graphic handling.	3	10.8.2021
5	Conditional Statements, Loops, MATLAB Programs – Programming and Debugging.	3	11.8.2021
6	Managing workspace and file commands, Predefined variables and math constants.	3	11.8.2021
7	Mathematical Computing with MATLAB Algebraic equations, Basic Symbolic Calculus and Differential equations, Numerical Techniques and Transforms	3	12.8.2021
8	Numbers and Strings	3	12.8.2021
9	Data Import and Project	3	13.8.2021
10	Applications of MATLAB Programming.	3	13.8.2021
Total Hours		30	


VAC Coordinator


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ACADEMIC YEAR ODD SEMESTER (2021-2022)

STUDENT PARTICIPATION LIST FOR VALUE ADDED PROGRAM

Fundamentals of MATLAB and its Uses

S.NO	REG.NO	NAME	YEAR & BRANCH
1	912620106001	ABIRAMI S	II & ECE
2	912620106002	ANUSHYA M	II & ECE
3	912620106003	ARTHI S	II & ECE
4	912620106004	JEYASRI K	II & ECE
5	912620106006	SENPAGAHARINI V	II & ECE
6	912620106007	SONIYA P	II & ECE
7	912620106301	ABITHA S	II & ECE
8	912620106302	DESIKA G	II & ECE
9	912620106303	SABAREESWARI S	II & ECE
10	912620106304	SUBBULAKSHMI P	II & ECE
11	912619106001	AASHIMA M	III & ECE
12	912619106002	ANANTHI P	III & ECE
13	912619106004	JAFFARNISHA R	III & ECE
14	912619106005	MAHESWARI K	III & ECE
15	912619106006	MANISHA S	III & ECE
16	912619106007	MEGAVADHANA A	III & ECE
17	912619106008	PRIYANGA R	III & ECE
18	912619106009	RAGAVI V	III & ECE
19	912619106010	RAJAPRABA M	III & ECE
20	912619106011	SASIKA K	III & ECE
21	912618106001	ANUSHAA S	IV & ECE
22	912618106002	ARIVARASI A	IV & ECE
23	912618106003	ASMATH HAZEENA N	IV & ECE
24	912618106004	ATCHAYA R	IV & ECE
25	912618106005	JAYAPRIYA T	IV & ECE
26	912618106006	JAYASRI M	IV & ECE
27	912618106007	NAGALAKSHMI P	IV & ECE

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S.NO	REG.NO	NAME	YEAR & BRANCH
28	912618106008	NAVITHRA D	IV & ECE
29	912618106009	ROHINI K	IV & ECE
30	912618106010	SOUNTHARYA P	IV & ECE
31	912618106012	THAIYAL NAYAGI K	IV & ECE
32	912618106701	JANANI.R	IV & ECE


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 KAIKKURICHI, PUDUKKOTTAI-622 303

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING ACADEMIC YEAR ODD SEMESTER (2021-2022)

ATTENDANCE SHEET FOR VALUE ADDED PROGRAM - FUNDAMENTALS OF MATLAB AND ITS USES

S.No	REG. NO	NAME	YEAR/ BRANCH	9.8.2021		10.8.2021		11.8.2021		12.08.2021		13.08.2021		NO. OF SESSIONS 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	912620106001	ABIRAMI S	II/ECE	/	/	/	/	/	/	/	/	/	/	10	S. Arif
2	912620106002	ANUSHYA M	II/ECE	/	/	/	/	/	/	/	/	/	/	10	m. Anushya
3	912620106003	ARTHI S	II/ECE	a	/	/	/	/	/	/	/	/	/	9	S. Arthi
4	912620106004	JEYASRI K	II/ECE	/	/	/	/	/	/	/	/	/	/	10	K. Jeyasri
5	912620106006	SENPAGAHARINI V	II/ECE	a	/	/	/	/	/	/	/	/	/	9	V. Maheshwari
6	912620106007	SONIYA P	II/ECE	/	/	/	/	/	/	a	/	/	/	9	P. Soniya
7	912620106301	ABITHA S	II/ECE	/	/	/	/	/	/	/	/	/	/	10	Abi S
8	912620106302	DESIKA G	II/ECE	/	/	a	/	/	/	/	/	/	/	9	G. Desika
9	912620106303	SABAREESWARI S	II/ECE	/	/	/	/	/	/	/	/	/	/	10	S. Sabareeswari
10	912620106304	SUBBULAKSHMI P	II/ ECE	a	a	/	/	/	/	/	/	/	/	8	S. Subbulakshmi
11	912619106001	AASHIMA M	III/ECE	/	/	/	/	/	/	/	/	/	/	10	Aashima
12	912619106002	ANANTHI P	III/ECE	/	/	/	/	/	/	/	/	/	/	10	R. Ananthi
13	912619106004	JAFFARNISHA R	III/ECE	/	/	/	/	/	/	/	/	/	/	10	R. Jaffarnisha
14	912619106005	MAHESWARI K	III/ECE	/	/	/	/	/	/	/	/	/	/	8	Maheswari

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15	912619106006	MANISHA S	III/ECE	/	/	/	/	/	/	/	/	/	/	/	10	S.K.J
16	912619106007	MEGAVADHANA A	III/ECE	/	/	/	/	/	/	/	/	/	/	/	10	A.A.A
17	912619106008	PRIYANGA R	III/ECE	/	/	/	/	/	/	/	/	/	/	/	10	R@
18	912619106009	RAGAVI V	III/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Rt.
19	912619106010	RAJAPRABA M	III/ECE	/	/	/	/	/	/	/	/	/	/	/	10	R@
20	912619106011	SASIKA K	III/ECE	/	/	/	/	/	/	/	/	/	/	/	10	R.S.P.
21	912618106001	ANUSHAA S	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Anusha
22	912618106002	ARIVARASI A	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Arivarasi.A
23	912618106003	ASMATH HAZEENA N	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Asmath
24	912618106004	ATCHAYA R	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	ATCHAYA.R
25	912618106005	JAYAPRIYA T	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Jayapriya
26	912618106006	JAYASRI M	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Jayasri
27	912618106007	NAGALAKSHMI P	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Neel
28	912618106008	NAVITHRA D	IV/ECE	a	a	/	/	/	/	/	/	/	/	/	8	Neer
29	912618106009	ROHINI K	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Rohini
30	912618106010	SOUNTHARYA P	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Sounthi
31	912618106012	THAIYAL NAYAGI K	IV/ECE	/	/	/	/	/	/	/	/	/	/	/	10	Thyal Nayagi
32	912618106701	JANANI.R	IV/ECE	/	/	a	/	/	/	/	/	/	/	/	9	Janani.R

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

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Report on Value Added Course

Title: Fundamentals of MATLAB and its Uses

Resource Person: **Er.C.MURUGAN,**
Senior Project Engineer,
Marcello Tech,
Trichy- 620 002.

Date of conduct from : **9.8.2021** To: **13.8.2021** Duration: **30 Hours**

Organized Department : **Electronics and Communication Engineering**

Participant Year: **2/ 3 /4** Semester: **ODD** No. of Students Registered : **32**

Venue: **Seminar Hall, ,Ground Floor, SBECW**

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

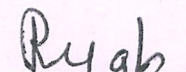
- Learn features of MATLAB as a programming tool. They are fully familiar to all the features of MATLAB software and easily handle the software.
- Develop programming skills and technique to solve mathematical problems.
- Learn graphic features of MATLAB and they are able to use this feature effectively in the various applications.
- Use MATLAB as a simulation tool.
- Work as a 'MATLAB programmer' in the industry.
- Will helps students to get the jobs in future.

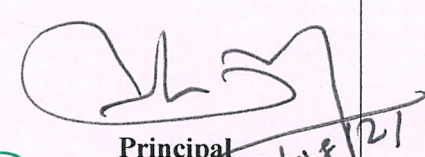
No. of students successfully completed the VAC course is **32 Students** based on the following Assessment process.

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)


VAC Coordinator


HoD/ ECE
HOD / ECE


Principal

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurichi, Pudukottai - 622 303.



MARCELLO TECH



CERTIFICATE

OF COMPLETION

This is certify that Mr./Ms./Mrs. **ANUSHYA M, II Yr / ECE** of

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

has successfully completed Five Days Value Added Course on "**Fundamentals of MATLAB and its Uses**" organized by the **Department of Electronics and Communication Engineering**, Sri Bharathi Engineering College for Women, Pudukottai in association with Marcellotech from **09.08.2021 to 13.08.2021**

S. Arudaiti

MANAGER



Dr. S. Thilagavathi

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

SRI BHARATHI ENGINEERING
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R. Ragh.

HOD - ECE



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MARCELLO TECH



CERTIFICATE

OF COMPLETION

This is certify that Mr./Ms./Mrs. **RAJAPRABA M, III Yr / ECE** of

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

has successfully completed Five Days Value Added Course on "**Fundamentals of MATLAB and its Uses**" organized by the **Department of Electronics and Communication Engineering** , Sri Bharathi Engineering College for Women, Pudukottai in association with **Marcellotech** from **09.08.2021** to **13.08.2021**

S. Arudaini

MANAGER



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

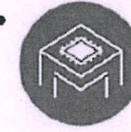
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HOD - ECE



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Kaikkurichi, Pudukottai - 622 303.



MARCELLO TECH



CERTIFICATE

OF COMPLETION

This is certify that Mr./Ms./Mrs. ANUSHAA S, IV Yr / ECE of

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

has successfully completed Five Days Value Added Course on "**Fundamentals of MATLAB and its Uses**" organized by the **Department of Electronics and Communication Engineering**, Sri Bharathi Engineering College for Women, Pudukottai in association with Marcellotech from **09.08.2021 to 13.08.2021**

S. Anudairi

MANAGER



Dr. S. Thilagavathi

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

PRINCIPAL

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COLLEGE FOR WOMEN**

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R. Ragh.

HOD - ECE



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

Name of the Student :

Year/Sem:

AU Register Number:

Value Added Course on “Fundamental of MATLAB and its Uses”

MCQ QUESTIONS (20X1 = 20 Marks)

1. What does MATLAB stand for?
 - a) Math Analysis Language Tool
 - b) Matrix Analysis Language Tool
 - c) Mathematical Analysis Language
 - d) Matrix Laboratory
2. Which Command In Matlab Is Used To Create A New Variable?
 - a) new
 - b) var
 - c) create
 - d) let
3. What Is The Default Extension Of A Matlab Script File?
 - a) .mat
 - b) .m
 - c) .md
 - d) .txt
4. Which Of The Following Statements Is Used To Create A For Loop In Matlab?
 - a) while
 - b) do-while
 - c) for
 - d) repeat-until
5. Which Of The Following Commands Is Used To Create A Matrix With All Elements Set To 0?
 - a) zeros
 - b) ones
 - c) eye
 - d) rand
6. Which command in MATLAB is used to create a plot?
 - a) plot
 - b) createplot
 - c) drawplot
 - d) makeplot
7. Which of the following commands is used to calculate the dot product of two vectors in MATLAB?
 - a) dot
 - b) cross
 - c) inner
 - d) product
8. The functioning of all() and any() is same.
 - a) True
 - b) False
9. What will be the output of the following code?

```
all([1 0])
```

 - a) 1
 - b) 0
 - c) Error
 - d) None of these


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10. Choose the correct hierarchy of operations.

- a) |,&,+,-
- b) +,-,&,|
- c) :,+,-,&
- d) |, :,&,.^

11. The if-else structure does not allow _____

- a) Return statement
- b) End statement
- c) Endif statement
- d) Break statement

12. Before starting a new case, we have to end the previous case using _____

- a) Break statement
- b) Continue statement
- c) Return statement
- d) No statement

13. The continue statement can be used in a switch-case structure.

- a) True
- b) False

14. We cannot use a _____ statement if the if-else structure is not part of a loop.

- a) continue
- b) if-else
- c) clc
- d) plot()

15. Digital systems _____ in Simulink.

- a) Can be implemented
- b) Cannot be implemented
- c) Only ADC's
- d) Only DAC's

16. The no. of logical operations present in the logical operator block is _____

- a) 6
- b) 7
- c) 5
- d) 3

17. The limits of the graph obtained from the scope can be changed from the _____

- a) Configuration properties
- b) Style option
- c) Layout option
- d) Stepping option

18. The clipboard function cannot work without

- a) Python
- b) C
- c) JAVA
- d) Not present in MATLAB

19. What is the output of the following code?

```
clipboard('copy','poe')
```

- a) Logical Error
- b) Copies 'poe'
- c) Copies poe
- d) Syntactical Error

20. What is the output of the following code?

```
system('date')
```

- a) Shows the date in your system
- b) Shows the actual date
- c) Shows the date when MATLAB was installed
- d) Error


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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Year 2021-2022/ODD Semester

Value Added Course on **Fundamentals of MATLAB and its uses**

MCQ ANSWER KEY

1	D	6	A	11	D	16	B
2	B	7	A	12	D	17	A
3	B	8	B	13	B	18	C
4	C	9	B	14	A	19	D
5	A	10	B	15	A	20	A

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

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Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

Name of the Student : Arthi.S

Year/Sem: II / III

AU Register Number: 912620106003

Value Added Course on “Fundamental of MATLAB and its Uses”

MCQ QUESTIONS (20X1 = 20 Marks)

1. What does MATLAB stand for?
a) Math Analysis Language Tool
b) Matrix Analysis Language Tool
c) Mathematical Analysis Language
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d) None of these



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10. Choose the correct hierarchy of operations.

- a) |, &, +, -
b) /, -, &, |
c) :, +, -, &
d) |, :, &, ^

11. The if-else structure does not allow _____

- a) Return statement
b) End statement
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12. Before starting a new case, we have to end the previous case using _____

- a) Break statement
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- a) continue
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15. Digital systems _____ in Simulink.

- a) Can be implemented
b) Cannot be implemented
c) Only ADC's
d) Only DAC's

16. The no. of logical operations present in the logical operator block is _____

- a) 6
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18. The clipboard function cannot work without

- a) Python
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19. What is the output of the following code?

```
clipboard('copy', 'poe')
```

- a) Logical Error
b) Copies 'poe'
c) Copies poe
d) Syntactical Error

20. What is the output of the following code?

```
system('date')
```

- a) Shows the date in your system installed
b) Shows the actual date
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Name of the Student : Maheswari.K

Year/Sem: III / V

AU Register Number: 912619106005

Value Added Course on "Fundamental of MATLAB and its Uses"

MCQ QUESTIONS (20X1 = 20 Marks)

1. What does MATLAB stand for?
 - a) Math Analysis Language Tool
 - b) Matrix Analysis Language Tool
 - c) Mathematical Analysis Language
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2. Which Command In Matlab Is Used To Create A New Variable?
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Name of the Student : P. Sountharya

Year/Sem: IV / VII

AU Register Number: 912618106010

14
20

Value Added Course on “Fundamental of MATLAB and its Uses”

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR ODD SEMESTER (2021-2022)

MARK SHEET FOR VALUE ADDED COURSE- FUNDAMENTALS OF MATLAB AND ITS USES

S.NO	REGISTER NUMBER	NAME	YEAR & BRANCH	Attendance (A)		VAC –MCQ TEST (B)		OVERALL MARK(100) (50% of A + 50% of B)
				No.of Sessions Attended	Marks (100)	No.of Correct Answer	Marks (100)	
1	912620106001	ABIRAMI S	II /ECE	10	100	18	90	95
2	912620106002	ANUSHYA M	II /ECE	10	100	13	65	83
3	912620106003	ARTHI S	II /ECE	9	90	15	75	83
4	912620106004	JEYASRI K	II /ECE	10	100	16	80	90
5	912620106006	SENPAGAHARINI V	II /ECE	9	90	15	75	83
6	912620106007	SONIYA P	II /ECE	9	90	15	75	83
7	912620106301	ABITHA S	II/ECE	10	100	19	95	98
8	912620106302	DESIKA G	II/ECE	9	90	14	70	80
9	912620106303	SABAREESWARI S	II/ECE	10	100	18	90	90
10	912620106304	SUBBULAKSHMI P	II/ECE	8	80	13	65	73
11	912619106001	AASHIMA M	III /ECE	10	100	17	85	93
12	912619106002	ANANTHI P	III /ECE	10	100	13	65	83
13	912619106004	JAFFARNISHA R	III /ECE	10	100	14	70	85
14	912619106005	MAHESWARI K	III /ECE	8	80	13	65	73

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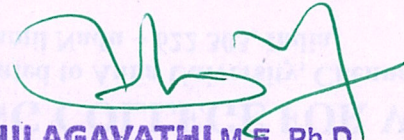
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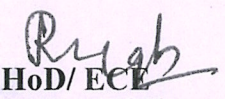
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15	912619106006	MANISHA S	III /ECE	10	100	16	80	90
16	912619106007	MEGAVADHANA A	III /ECE	10	100	13	65	83
17	912619106008	PRIYANGA R	III /ECE	10	100	14	70	85
18	912619106009	RAGAVI V	III /ECE	10	100	19	95	98
19	912619106010	RAJAPRABA M	III /ECE	10	100	18	90	95
20	912619106011	SASIKA K	III /ECE	10	100	16	80	90
21	912618106001	ANUSHAA S	IV /ECE	10	100	14	60	80
22	912618106002	ARIVARASI A	IV /ECE	10	100	18	90	95
23	912618106003	ASMATH HAZEENA N	IV /ECE	10	100	14	70	85
24	912618106004	ATCHAYA R	IV /ECE	10	100	12	60	80
25	912618106005	JAYAPRIYA T	IV /ECE	10	100	15	75	88
26	912618106006	JAYASRI M	IV /ECE	10	100	18	90	95
27	912618106007	NAGALAKSHMI P	IV /ECE	10	100	16	80	90
28	912618106008	NAVITHRA D	IV /ECE	8	80	19	95	88
29	912618106009	ROHINI K	IV /ECE	10	100	12	60	80
30	912618106010	SOUNTHARYA P	IV /ECE	10	100	14	60	80
31	912618106012	THAIYAL NAYAGI K	IV /ECE	10	100	13	65	83
32	912618106701	JANANI.R	IV /ECE	9	90	15	75	83


VAC Coordinator


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