

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

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## **NAAC DOCUMENTS**



Quality Indicator Frame Work

# Criterion – 1

## CURRICULAR ASPECTS

Submitted by

# IQAC Internal Quality Assurance Cell

Sri Bharathi Engineering College for Women



#### (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) KAIKKURUCHI, PUDUKOTTAI – 622 303 DEPARTMENT OF SCIENCE AND HUMANITIES

#### 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:	LI	LINUX OPERATING SYSTEM											
Resource Person:		Er.K.Gurunathan,M.E, Trainer, MECK TECK Research Foundation, 6/9,Kamarajapuram 17 <sup>th</sup> street, Pudukkottai-622001.											
Date of condu	ct fr	om :	04.01.2021	To:	09.01	.2021	<b>Duration:</b>	36 Hou	rs				
Organized De	part	ment :	SCIENCE A	AND HUM	ANITI	ES		1					
Participant Year:1Semester:ODD						No. of Students Registered : 36							
Venue:     https://meet.google.com/shs-ufht-wzx													

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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 SCIENCE AND HUMANITIES**

#### ACADEMIC YEAR 2020-2021 / ODD SEMESTER

Date: 30.12.2020

#### **DEPARTMENT CIRCULAR**

It is planned to conduct value added course offered by the Department of Science and Humanities for all First year students on "Linux Operating System" in association with MECK TECK Research Foundation from 04.01.2021 to 09.01.2021 through online platform. Certificate will be issued to the eligible participants at the end of the course. The resource person details are shown in the following table.

S.No.	Name of the Course	<b>Resource Person</b>
		Er.K.Gurunathan,M.E,
	Linux Operating	Trainer,
1.	System	MECK TECK Research Foundation,
	System	6/9,Kamarajapuram 17 <sup>th</sup> street,
		Pudukkottai-622001.

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HoD/S&H HOD / S&H SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHI PUDUKKOTTAI - 622 303.

Cc:

- Principal's Office
- IQAC Coordinator
- Class In charges I Years (All Departments)
- I-year Students(Civil,ECE,EEE,CSE)
- Notice Board

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

PRINCIPAL SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) Kaikkurichi, Pudukkottai, Tamil Nadu - 622 303, India DEPARTMENT OF SCIENCE AND HUMANITIES ACADEMIC YEAR 2020-2021 / ODD SEMESTER

### Value Added Course on "LINUX OPERATIG SYSTEM"

#### **SYLLABUS**

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Understanding the Linux file systemhierarchy and Getting started with the terminal (command-line interface)	3	04.01.2021
2	Basic commands: ls, cd, pwd, mkdir, touch, rm, mv, cp and File permissions and ownership: chmod, chown, chgrp	3	04.01.2021
3	Text editors in Linux: nano and vim	2	05.01.2021
4	Manipulating text using commands like cat, grep, sed, and awk	2	05.01.2021
5	Input/output redirection and pipelines	2	05.01.2021
6	File compression and archiving: tar, gzip, zip	3	06.01.2021
7	User and group management: useradd userdel, groupadd, groupdel and Password management: passwd	3	06.01.2021
8	File permissions in detail: chmod, chown, chgrp and	3	07.01.2021
9	Access control lists (ACLs)	1	07.01.2021
10	Package management systems: apt (Debian/Ubuntu) and yum/dnf (RHEL/CentOS)	2	07.01.2021
10	Installing, updating, and removing software packages and Managing services: starting, stopping, enabling, and disabling	3	08.01.2021
11	Introduction to system configuration files	1	08.01.2021
12	Basics of networking in Linux: ifconfig, ping, ssh	2	08.01.2021
13	Writing and executing shell scripts	1	09.01.2021
14	Variables, conditionals, loops, and functions in scripts	2	09.01.2021
15	Using command-line arguments in scripts and Basic automation tasks with shell scripts	3	09.01.2021
	Total Hours	36	

**Total Hours** 

**VAC** Coordinator

C: S.THILAGAVATHI M.E., Ph.D., PRINCIPAL

SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

Kaikkurchi - 622 303, Pudukkottai Dt.

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SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN KAIKKURICHL PUDUKKOTTAI - 622 303.



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 SCIENCE AND HUMANITIES** 

ACADEMIC YEAR 2020-2021 (ODD SEM)

#### STUDENTS PARTICIPATION LIST-VAC PROGRAM

#### Linux Operating System

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	2	20CS02	HEMA V	I/CSE
	3	20CS03	ISWARYA R	I/CSE
	4	20CS04	KALAIVANI S	I/CSE
	5	20CS05	KALPANA K	I/CSE
	6	20CS06	MAHALAKSHMI P	I/CSE
	7	20CS07	MEIYYAMMAL M	I/CSE
	8	20CS08	NANDHINI P	I/CSE
	9	20CS09	PRASANNA DEVI P	I/CSE
	10	20CS10	PRISHIYA E	I/CSE
	11	20CS11	ROHINI M	I/CSE
-		20CS12	ROSAMMAL M	
-	12	20CS13		I/CSE
	13	200513	ROSHIKA K	I/CSE
500	14	20CS14	SABHA AYSHA S	I/CSE
	245 C	20CS15	SATHIYASRI P	I/CSE
시위원권 기원(AC	16	20CS16	SIVAGAMI D	I/CSE
2 303	17	20CS17	SIVAHARINI S	I/CSE
-	18	20CS18	SUBASHINI C	J/CSE
	19	20CS19	SUBASHINI M	<b>V</b> /CSE
L			Dr. S.THILAGAVATHI PRINCIPAL	ALE., Ph.D.,

COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt.

	20	20CS20	SWETHA D	I/CSE
14.3	21	20CS21	VANATHI T	I/CSE
	22	20CS22	VINCIYA MARY S	I/CSE
	23	20CE01	ASWINI T	I/CIVIL
. 1	24	20CE02	GEETHA M	I/CIVIL
	25	20CE03	KEERTHI S	I/CIVIL
NC	26	20CE04	SUBATHRA S	I/CIVIL
	27	20EC01	ABIRAMI S	I/ECE
	28	20EC02	ANUSHYA M	I/ECE
	29	20EC03	ARTHI S	I/ECE
	30	20EC04	JEYASRI K	I/ECE
	31	20EC05	RISHVANA BANU S	I/ECE
	32	20EC06	SENPAGAHARINI V	I/ECE
	33	20EC07	SONIYA P	I/ECE
	34	20EE01	KAYALVIZHI K	I/EEE
	35	20EE02	RAMADEVI S	I/EEE
	36	20EE03	SRINANTHANA S	I/EEE

**VAC** Coordinator

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

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ATTENDANCE SHEET FOR VALUE ADDED COURSE- LINUX OPERATING SYSTEM

	S. NO	ROLL.NO	ROLL.NO	ROLL.NO	ROLL.NO	ROLL.NO	ROLL.NO	NAME OF THE STUDENT	YEAR/ BRANCH		TE: 01.21	DA 05.0	TE: )1.21		TE: )1.21		TE: )1.21		TE: )1.21	-	.TE: )1.21	NO OF SESSIONS ATTENDED
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	2	20CS02	HEMA V	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
	3	20CS03	ISWARYA R	I/CSE	,	1	1	1	1	1	1	1	1	1	1	1	12					
	4	20CS04	KALAIVANI S	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
01	5	20CS05	KALPANA K	I/CSE	1	1	a	a	1	1	1	1	1	1	1	1	10					
R	6	20CS06	MAHALAKSHMI P	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
	7	20CS07	MEIYYAMMAL M	I/CSE	1	1	1	1	a	a	1	1	1	1	1	1	10					
	8	20CS08	NANDHINI P	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
C_	9	20CS09	PRASANNA DEVI P	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
1	10	20CS10	PRISHIYA E	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
1	11	20CS11	ROHINI M	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
JV	12	20CS12	ROSAMMAL M	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12					
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15	20CS15	SATHIYASRI P	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12
16	20CS16	SIVAGAMI D	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12
17	20CS17	SIVAHARINI S	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12
18	20CS18	SUBASHINI C	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12
19	20CS19	SUBASHINI M	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12
20	20CS20	SWETHA D	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12
21	20CS21	VANATHI T	I/CSE	1	1	1	1	1	1	1	1	1	1	1	1	12
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26	20CE04	SUBATHRA S	I/CIVIL	1	1	1	1	1	1	1	1	1	1	1	1	12
27	20EC01	ABIRAMI S	I/ECE	1	1	1	1	1	1	1	1	1	1	1	1	12
28	20EC02	ANUSHYA M	I/ECE	1	1	1	1	1	1	1	1	1	1	1	1	12
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31	20EC05	RISHVANA BANU S	I/ECE	1	1	1	1	1	1	1	1	1	1	1	1	12
32	20EC06	SENPAGAHARINI V	I/ECE	1	1	1	1	1	1	1	1	1	1	1	1	12
33	20EC07	SONIYA P	I/ECE	1	1	1	1	1	1	1	1	1	1	1	1	12
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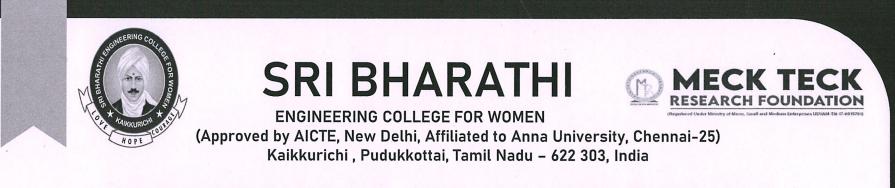


### SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

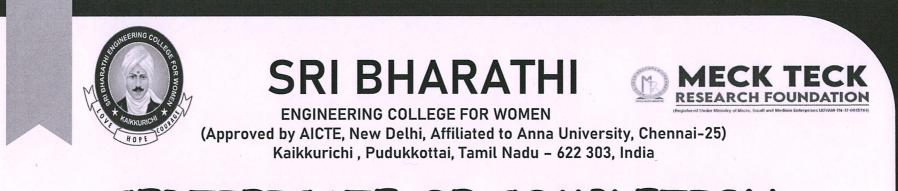
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	IL	CSE,EE	E	Semester:	ODD		No. of S	Students Regist	ered :	36					
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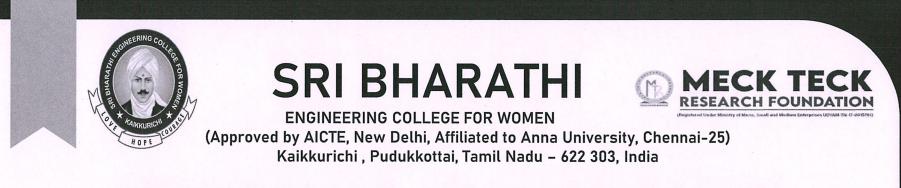
This is to certify that **GEETHA M** / year *CIVIL* has completed 6 days value added course about **\* Linux opearfing system** \* from 04.01.2021 to 09.01.2021 during the academic year 2020–2021.

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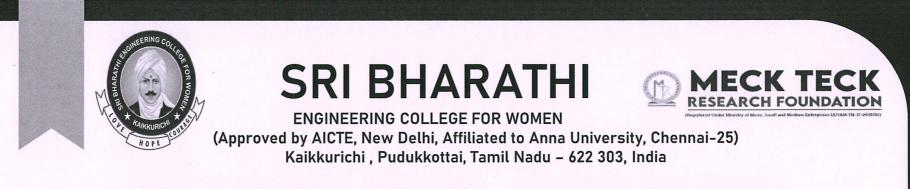
This is to certify that **SONIYA P** / year *ECE* has completed 6 days value added course about **\* Linux opearfing system** \* from 04.01.2021 to 09.01.2021 during the academic year 2020–2021.

H. Fran CEO PRINCIPAL Meck Teck SBECW Dr. S.THILAG FHIM.E. Ph.D., SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN Kaikkurchi - 622 303, Pudukkottai Dt



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(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India **DEPARTMENT OF SCIENCE AND HUMANITIES** ACADEMIC YEAR 2020-2021 / ODD SEMESTER

#### Value Added Course On "LINUX OPERATING SYSTEM"

#### MCQ QUESTIONS (25X1=25 Marks)

woff if thy of the	8218		
1. What is the kernel in a Linux operation	ating system?		
a) The graphical user interface	0.1		
b) The core component that manages	system resources and	communicates wit	h hardware
c) The package manager			in nur a war e
d) The command-line interface			
.,			
2. Which command is used to list file	s and directories in L i	nux9	
a) list			
c) ls			
	u) cu		
3. Which command is used to change	directory in Linux?		
a) cd	b) char		
c) dir	d) mv	ige	
c) un	u) mv		
4.To change file permissions in Linux	which command is	ucad?	
a) chmod	b) chow		
	d) perm		
syndax. It ho one	· 1	n Iv suitable for begi	
5. Which command is used to create a a) newdir			DO AND HOM WITH
,	b) crea		
c) mkdir	d) touc		
		i Vim are pro-insta	
6. Which Linux distribution is known			
a) Ubuntu		ora	
c) CentOS	d) Linu	ux Mint	
Wanable name	b) (b		
7. What is the default shell in most Lir			
a) Bash	b) Csh		
c) Zsh	d) Ksh		
8. Which command is used to install se	oftware packages in B	ebian/Ubuntu-bas	ed distributions?
	m-NS (	XIN	
		5	
E.Ph.O.\	Dr S.TH	ILAGAVATHI M	.E.,Ph.D.,

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a) apt-get	b) yum	
c) pacman		
	Kaikkurichi. Zudukkoi	
9. What does the command "grep" do in Linux?		
a) Copy files and directories	b) Display the contents of a file	e
c) Search for a pattern in a file	d) Move files and directories	
10. Which command is used to shutdown the system	n immediately?	
a) reboot	b) shutdown -h now	
c) poweroff	d) halt	
11. What are Nano and Vim in Linux?		
a) Programming languages	b) Graphical user interfaces	
c) Text editors		
12. Which command is used to open a file with Nar		
a) nano open filename	b) open file with nano	
c) nano filename	d) create file filename	
13.How do you save changes and exit Nano?	mmand is used to changed irect	
a) Ctrl + S	b) Ctrl + X	
c) Ctrl + C	d) Ctrl + Z	
14. Which of the following text editors is more suit	able for beginners due to its sim	plicity and
ease of use?		a) chmod
a) Nano	b) Vim	
c) Both are equally suitable for beginners	d) None of the above	
15. Which text editor is pre-installed on most Linux	a distributions, making it readily	available for
use?	b) Vim	
<ul><li>a) Nano</li><li>c) Both Nano and Vim are pre-installed</li></ul>	<ul><li>b) Vim</li><li>d) None of the above</li></ul>	
c) Both Ivano and Vini are pre-instaned	d) None of the above	
16.In Linux shell scripting, variables are denoted b	N.	umud 1 te
a) \$variable name	b) %variable name	
c) #variable name	d) @variable_name	
Canoitalia		
17. What is the correct way to assign a value to a	ariable in a shell script?	
a) variable name = value	b) variable name := value	
c) variable name = "value"	d) variable name="value"	
	0	
Dr. C THU ACAVAT		
Dr S.THILAGAVATI PRINCIPA	L	
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<ul><li>18.In shell scripting, which conditional construct</li><li>a) for</li><li>c) if</li></ul>	et is used for simple if-then statements? b) while d) case
19. How do you check if two strings are equal in	a shell script?
a) if [ string1 == string2 ]	b) if [ string1 = string2 ]
c) if [ string1 -eq string2 ]	d) if [ string1 -e string2 ]
20. Which operator is used for numerical compa	rison in shell scripting?
a) ==	b) !=
c) —eq	d) -ne
21.In a shell script, how do you comment a sing	le line?
a) /* This is a comment */	b) # This is a comment
c) // This is a comment	d) This is a comment
22. Which loop construct is used to iterate throug	gh a list of values in a shell script?
a) for loop	b) while loop
c) until loop	d) do-while loop
23. How do you get the number of command-line	e arguments passed to a shell script?
a) \$count	b) \$argc
c) \$#argv	d) \$#
24. Which command is used to define a function	in a shell script?
a) function	b) def
c) func	d) func()
25. How do you call a function in a shell script?	
a) call function name	b) function name()
c) run function name	d) execute function name
_	a) encoure renerion_name
	LAL
Dr. S.THILAG	AVATHI M.E., Ph.D.,
P	RINCIPAL
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#### SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25) KAIKKURICHI, PUDUKKOTTAI -622 303. DEPARTMENT OF SCIENCE AND HUMANITIES <u>ACADEMIC YEAR 2020-2021/ ODD SEMESTER</u>

Value Added Course On "Linux Operating System"

### MCQ ANSWER KEY

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

VAC Coordinator

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ACADEMIC YEAR 2020-2021 (ODD SEM)

MARK SHEET FOR VALUE ADDED COURSE- LINUX OPERATING SYSTEM

S.NO	ROLL.NO	NAME OF THE STUDENT	YEAR/ BRANCH	ATTENDANCE DETAILS		VAC-MCQ TEST		OVERALL
				No of Sessions Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
1	20CS01	AKALYA S	I/CSE	12	100	19	76	88
2	20CS02	HEMA V	I/CSE	12	100	19	76	88
3	20CS03	ISWARYA R	I/CSE	12	100	15	60	80
4	20CS04	KALAIVANI S	I/CSE	12	100	18	72	86
5	20CS05	KALPANA K	I/CSE	12	100	17	68	84
6	20CS06	MAHALAKSHMI P	I/CSE	10	83	13	52	68
7	20CS07	MEIYYAMMAL M	I/CSE	12	100	16	64	82
8	20CS08	NANDHINI P	I/CSE	10	83	14	56	70
9	20CS09	PRASANNA DEVI P	I/CSE	- 12	100	15	60	80

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0	20CS10	PRISHIYA E	I/CSE	12	100	18	72	86
1	20CS11	ROHINI M	· I/CSE	12	100	19	76	88
2	20CS12	ROSAMMAL M	I/CSE	12	100	17	68	84
3	20CS13	ROSHIKA K	I/CSE	12	100	19	76	88
4	20CS14	SABHA AYSHA S	I/CSE	12	100	15	60	80
.5	20CS15	SATHIYASRI P	I/CSE	12	100	17	68	84
6	20CS16	SIVAGAMI D	I/CSE	12	100	16	64	82
17	20CS17	SIVAHARINI S	I/CSE	12	100	15	60	80
18	20CS18	SUBASHINI C	I/CSE	12	100	18	72	86
19	20CS19	SUBASHINI M	I/CSE	12	100	21	84	92
20	20CS20	SWETHA D	I/CSE	12	100	20	80	90
21	20CS21	VANATHI T	I/CSE	12	100	21	84	92
22	20CS22	VINCIYA MARY S	I/CSE	12	100	19	76	88
23	20CE01		I/CIVIL	12	100	18	72	86
24	20CE02	GEETHA MTHILAGAVATH	IM.E.VSH.VIL	10	0 119 83 11 1191	20	80	82

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					T			
25	20CE03	KEERTHI S	I/CIVIL	12	100	19	76	88
26	20CE04	SUBATHRA S	I/CIVIL	12	100	17	68	84
27	20EC01	ABIRAMI S	I/ECE	12	100	18	72	86
28	20EC02	ANUSHYA M	I/ECE	12	100	12	48	74
29	20EC03	ARTHI S	I/ECE	10	83	18	72	78
30	20EC04	JEYASRI K	I/ECE	12	100	18	72	86
31	20EC05	RISHVANA BANU S	I/ECE	12	100	19	76	88
32	20EC06	SENPAGAHARINI V	I/ECE	12	100	19	76	88
33	20EC07	SONIYA P	I/ECE	12	100	12	48	. 74
34	20EE01	KAYALVIZHI K	I/EEE	12	100	14	56	78
35	20EE02	RAMADEVI S	I/EEE	10	83	22	88	86
36	20EE03	SRINANTHANA S	I/EEE	12	100	19	76	88

VAC Coordinator

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