



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 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:	LINUX OPERATING SYSTEM				
Resource Person:	Er.K.Gurunathan,M.E, Trainer, MECK TECK Research Foundation, 6/9,Kamarajapuram 17th street, Pudukkottai-622001.				
Date of conduct from :	04.01.2021	To:	09.01.2021	Duration:	36 Hours
Organized Department :	SCIENCE AND HUMANITIES				
Participant Year:	1	Semester:	ODD	No. of Students Registered :	36
Venue:	https://meet.google.com/shs-ufht-wzx				

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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	Resource Person
1.	Linux Operating System	Er.K.Gurunathan,M.E, Trainer, MECK TECK Research Foundation, 6/9,Kamarajapuram 17 th street, Pudukkottai-622001.

Cc:

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


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Dr. S. THILAGAVATHI M.E., Ph.D.,
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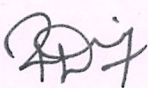
DEPARTMENT OF SCIENCE AND HUMANITIES

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

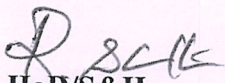
Value Added Course on “LINUX OPERATING SYSTEM”

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Understanding the Linux file system hierarchy 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	


VAC Coordinator


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DEPARTMENT OF SCIENCE AND HUMANITIES

ACADEMIC YEAR 2020-2021 (ODD SEM)

STUDENTS PARTICIPATION LIST-VAC PROGRAM

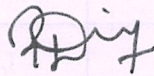
Linux Operating System

S.NO	REG.NO	NAME OF THE STUDENT	YEAR/BRANCH
1	20CS01	AKALYA S	I/CSE
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
12	20CS12	ROSAMMAL M	I/CSE
13	20CS13	ROSHIKA K	I/CSE
14	20CS14	SABHA AYSHA S	I/CSE
15	20CS15	SATHIYASRI P	I/CSE
16	20CS16	SIVAGAMI D	I/CSE
17	20CS17	SIVAHARINI S	I/CSE
18	20CS18	SUBASHINI C	I/CSE
19	20CS19	SUBASHINI M	I/CSE

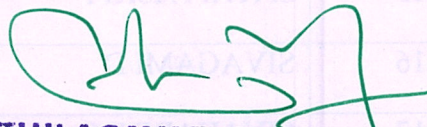
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20	20CS20	SWETHA D	I/CSE
21	20CS21	VANATHI T	I/CSE
22	20CS22	VINCIYA MARY S	I/CSE
23	20CE01	ASWINI T	I/CIVIL
24	20CE02	GEETHA M	I/CIVIL
25	20CE03	KEERTHI S	I/CIVIL
26	20CE04	SUBATHRA S	I/CIVIL
27	20EC01	ABIRAMI S	I/ECE
28	20EC02	ANUSHYA M	I/ECE
29	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

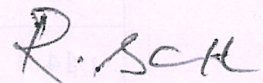


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DEPARTMENT OF SCIENCE AND HUMANITIES

ACADEMIC YEAR 2020-2021 (ODD SEM)

ATTENDANCE SHEET FOR VALUE ADDED COURSE- LINUX OPERATING SYSTEM

S. NO	ROLL.NO	NAME OF THE STUDENT	YEAR/ BRANCH	DATE: 04.01.21		DATE: 05.01.21		DATE: 06.01.21		DATE: 07.01.21		DATE: 08.01.21		DATE: 09.01.21		NO OF SESSIONS ATTENDED
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	20CS01	AKALYA S	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
2	20CS02	HEMA V	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
3	20CS03	ISWARYA R	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
4	20CS04	KALAIVANI S	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
5	20CS05	KALPANA K	I/CSE	/	/	a	a	/	/	/	/	/	/	/	/	10
6	20CS06	MAHALAKSHMI P	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
7	20CS07	MEIYYAMMAL M	I/CSE	/	/	/	/	a	a	/	/	/	/	/	/	10
8	20CS08	NANDHINI P	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
9	20CS09	PRASANNA DEVI P	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
10	20CS10	PRISHIYA E	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
11	20CS11	ROHINI M	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
12	20CS12	ROSAMMAL M	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
13	20CS13	ROSHIKA K	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
14	20CS14	SABHA AYSHA S	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12

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15	20CS15	SATHIYASRI P	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
16	20CS16	SIVAGAMI D	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
17	20CS17	SIVAHARINI S	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
18	20CS18	SUBASHINI C	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
19	20CS19	SUBASHINI M	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
20	20CS20	SWETHA D	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
21	20CS21	VANATHI T	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
22	20CS22	VINCIYA MARY S	I/CSE	/	/	/	/	/	/	/	/	/	/	/	/	12
23	20CE01	ASWINI T	I/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
24	20CE02	GEETHA M	I/CIVIL	a	a	/	/	/	/	/	/	/	/	/	/	10
25	20CE03	KEERTHI S	I/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
26	20CE04	SUBATHRA S	I/CIVIL	/	/	/	/	/	/	/	/	/	/	/	/	12
27	20EC01	ABIRAMI S	I/ECE	/	/	/	/	/	/	/	/	/	/	/	/	12
28	20EC02	ANUSHYA M	I/ECE	/	/	/	/	/	/	/	/	/	/	/	/	12
29	20EC03	ARTHI S	I/ECE	/	/	/	/	/	/	a	a	/	/	/	/	10
30	20EC04	JEYASRI K	I/ECE	/	/	/	/	/	/	/	/	/	/	/	/	12
31	20EC05	RISHVANA BANU S	I/ECE	/	/	/	/	/	/	/	/	/	/	/	/	12
32	20EC06	SENPAGAHARINI V	I/ECE	/	/	/	/	/	/	/	/	/	/	/	/	12
33	20EC07	SONIYA P	I/ECE	/	/	/	/	/	/	/	/	/	/	/	/	12
34	20EE01	KAYALVIZHI K	I/EEE	/	/	/	/	/	/	/	/	/	/	/	/	12
35	20EE02	RAMADEVI S	I/EEE	/	/	a	a	/	/	/	/	/	/	/	/	10
36	20EE03	SRINANTHANA S	I/EEE	/	/	/	/	/	/	/	/	/	/	/	/	12

D. Jey
VAC Coordinator

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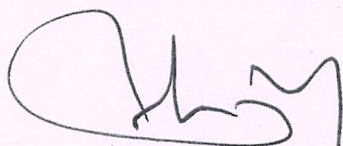
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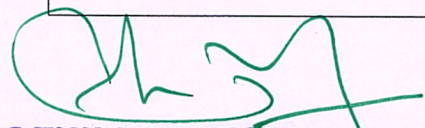
Report on Value Added Course

Title:	LINUX OPERATING SYSTEM				
Resource Person:	Er.K.Gurunathan,M.E, Trainer, MECK TECK Research Foundation, 6/9,Kamarajapuram 17 th street, Pudukkottai-622001.				
Date of conduct from :	04.01.2021	To:	09.01.2021	Duration:	36 Hours
Organized Department :	SCIENCE AND HUMANITIES				
Participant Year:	I(CIVIL, CSE,EEE ,ECE)	Semester:	ODD	No. of Students Registered :	36
Venue:	Google Meet Link: https://meet.google.com/shs-ufht-wzx				
Outcome of Value Added Course (VAC)					
At the end of the VAC course the student can able to					
<ul style="list-style-type: none">• Understanding of basic Linux commands and their usage.• Ability to navigate, create, modify, and delete files and directories using CLI commands.• Understanding of Linux system administration tasks such as user management, group management, and permissions.• Understanding of control structures and variables in shell scripts.• Understanding of user authentication methods, firewalls, and access controls.					
Assessment Process					
<ul style="list-style-type: none">• 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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CERTIFICATE OF COMPLETION

This is to certify that **GEETHA M** / year *CIVIL* has completed 6 days value added course about ***Linux operating system*** from 04.01.2021 to 09.01.2021 during the academic year 2020-2021.

CEO
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CERTIFICATE OF COMPLETION

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

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CERTIFICATE OF COMPLETION

This is to certify that **RAMADEVI S** / year *EEE* has completed 6 days value added course about ***Linux operating system*** from 04.01.2021 to 09.01.2021 during the academic year 2020-2021.

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This is to certify that **AKALYA S** / year *CSE* has completed 6 days value added course about ***Linux operating system*** from 04.01.2021 to 09.01.2021 during the academic year 2020-2021.

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DEPARTMENT OF SCIENCE AND HUMANITIES

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

Value Added Course On “LINUX OPERATING SYSTEM”

MCQ QUESTIONS (25X1=25 Marks)

1. What is the kernel in a Linux operating system?
 - a) The graphical user interface
 - b) The core component that manages system resources and communicates with hardware
 - c) The package manager
 - d) The command-line interface
2. Which command is used to list files and directories in Linux?
 - a) list
 - b) dir
 - c) ls
 - d) cd
3. Which command is used to change directory in Linux?
 - a) cd
 - b) change
 - c) dir
 - d) mv
4. To change file permissions in Linux, which command is used?
 - a) chmod
 - b) chown
 - c) chgrp
 - d) perm
5. Which command is used to create a new directory in Linux?
 - a) newdir
 - b) create_dir
 - c) mkdir
 - d) touch
6. Which Linux distribution is known for its use in server environments?
 - a) Ubuntu
 - b) Fedora
 - c) CentOS
 - d) Linux Mint
7. What is the default shell in most Linux distributions?
 - a) Bash
 - b) Csh
 - c) Zsh
 - d) Ksh
8. Which command is used to install software packages in Debian/Ubuntu-based distributions?

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- a) apt-get
- c) pacman

- b) yum
- d) dnf

9. What does the command "grep" do in Linux?

- a) Copy files and directories
- c) Search for a pattern in a file

- b) Display the contents of a file
- d) Move files and directories

10. Which command is used to shutdown the system immediately?

- a) reboot
- c) poweroff

- b) shutdown -h now
- d) halt

11. What are Nano and Vim in Linux?

- a) Programming languages
- c) Text editors

- b) Graphical user interfaces
- d) Package managers

12. Which command is used to open a file with Nano?

- a) nano open filename
- c) nano filename

- b) open file with nano
- d) create file filename

13. How do you save changes and exit Nano?

- a) Ctrl + S
- c) Ctrl + C

- b) Ctrl + X
- d) Ctrl + Z

14. Which of the following text editors is more suitable for beginners due to its simplicity and ease of use?

- a) Nano
- c) Both are equally suitable for beginners

- b) Vim
- d) None of the above

15. Which text editor is pre-installed on most Linux distributions, making it readily available for use?

- a) Nano
- c) Both Nano and Vim are pre-installed

- b) Vim
- d) None of the above

16. In Linux shell scripting, variables are denoted by:

- a) \$variable_name
- c) #variable_name

- b) %variable_name
- d) @variable_name

17. What is the correct way to assign a value to a variable in a shell script?

- a) variable_name = value
- c) variable_name = "value"

- b) variable_name := value
- d) variable_name="value"


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18. In shell scripting, which conditional construct is used for simple if-then statements?

- a) for
- b) while
- c) if
- 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 comparison in shell scripting?

- a) ==
- b) !=
- c) -eq
- d) -ne

21. In a shell script, how do you comment a single 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 through 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 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



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DEPARTMENT OF SCIENCE AND HUMANITIES

ACADEMIC YEAR 2020-2021/ ODD SEMESTER

Value Added Course On “Linux Operating System”

MCQ ANSWER KEY

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


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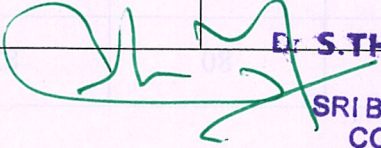
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DEPARTMENT OF SCIENCE AND HUMANITIES

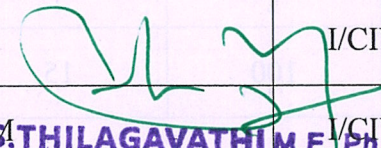
ACADEMIC YEAR 2020-2021 (ODD SEM)

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 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	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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10	20CS10	PRISHIYA E	I/CSE	12	100	18	72	86
11	20CS11	ROHINI M	I/CSE	12	100	19	76	88
12	20CS12	ROSAMMAL M	I/CSE	12	100	17	68	84
13	20CS13	ROSHIKA K	I/CSE	12	100	19	76	88
14	20CS14	SABHA AYSHA S	I/CSE	12	100	15	60	80
15	20CS15	SATHIYASRI P	I/CSE	12	100	17	68	84
16	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	ASWINI T	I/CIVIL	12	100	18	72	86
24	20CE02	GEETHA M	I/CIVIL	10	83	20	80	82


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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


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