

S.S.G.M.College, Kopargaon
Department of Physics
Certificate Course "LINUX" Operating system
INDEX 2020-21

Sr.No.	Particulars	Page No.
1.	Syllabus	1-2
2.	Notice (Admission)	3
3.	List of Students	4
4.	Admission forms	5-18
5.	Notice(Commencement of Course)	19
6.	Time Table	20
7.	Attendance	21-24
8.	Time Table (Examination)	25
9.	Question Paper	26-31
10.	Result	32
11.	Certificate	33

S.S.G.M.College, Kopargaon
Department of Physics
Certificate Course: LINUX Operating System
Syllabus

1. Introduction

- 1.1 The role of an operating system
- 1.2 Why Linux?
- 1.3 Learning about a computer system
- 1.4 Some simple commands
- 1.5 Logging out
- 1.6 Manuals
- 1.7 How does A computer runs
- 1.8 Structural layout of a computer system

2. Files and directories

- 2.1 Creating a file
- 2.2 Commands for directories
- 2.3 Exploring system directories
- 2.4 Relative path names
- 2.5 Making new directories
- 2.6 The do command
- 2.7 What are system commands?

3. Commands to see files

- 3.1 The cat command
- 3.2 The more command
- 3.3 The tail command
- 3.4 The File Command

4. Commands for file movements

- 4.1 The cp command
- 4.2 The mv command
- 4.3 The rm command
- 4.4 The rmdir command

5. General Utilities

- 5.1 The ps command
- 5.2 Background processing
- 5.3 The nohup utility
- 5.4 Killing a process
- 5.5 The write Utility
- 5.6 The mail facility
- 5.7 The cal command

S.S.G.M College, Kopargaon

Department of Physics

Certificate Course: "LINUX" Operating System

List of Practical's

1. Simple Commands
2. Files and Directories
3. Cat and Tail Commands
4. Movement Commands
5. Utilities (PS commands)
6. The Cal Commands (Write & Mail facility)
7. Vi Editor
8. GNU Plot (Title & Label Commands)



1. Title of Course: "LINUX" operating system

Class: M.Sc.-II

Intake Capacity: 20

Duration: 3 Months

Fee: Rs.100/- per student

Lecture + Practical - 60 periods

2. Syllabus:

3. Notice to Students & Admission form:

4. List of Students

5. Notice (to start course)

6. Time Table:

7. Attendance with signature

8. Notice for Examination

9. Result

10. Student feedback on course



S.S.G.M.College, Kopargaon
Department of Physics
Certificate Course "LINUX" Operating system
List of Students Enrolled (2020-21)

Roll No.	Name of the Student
8526	Miss.Autade.A.B.
8527	Miss Barawant.H.B.
8528	Miss.Dhanwate.J.C.
8529	Miss.Dhepale.K.S.
8530	Miss.Ghogare.S.N.
8531	Miss.Ghule.R.C.
8532	Miss.Musale.S.B.
8533	Miss.Nanaware P.R.
8534	Miss.Narode.M.B.
8535	Mr.Pachore.P.A.
8536	Mr.Pawar.K.K.
8537	Miss.Pawar.M.K.
8538	Miss.Soundane.P.B.
8539	Miss.Shinde.P.V.

Note :- Due to CORONA pandemic situation the course fee not taken from the student.



A handwritten signature in blue ink, appearing to be "S.S.G.M.", written over the word "Head,".

Head,
Department of Physics

Notice

20/01/2021

All the students of M.Sc.-II (Physics) are hereby informed that, Department of Physics is going to conduct a Certificate course entitled "LINUX" Operating system. The duration for the said course is of three months from 15 Feb 2021 to 20 April 2021. The interested candidates should apply for the course before 10/02/2021 to confirm the admission.

Note:- Due to CORONA pandemic situation the course can be conduct freely.



Head
Department of Physics



Principal
S.S.G.M.College, Kopargaon





Rayat Shikshan Sanstha's
S.S.G.M. College, Kopargaon
Dist. Ahmednagar



Admission form for Certificate Course - 2020-21

Name: Autade Achal Machhindra .

Class: MSc II (Physics)

Address: A/P. Pohegaon

Mobile No. 9767164663

To,

The Principal,

S.S.G.M. College, Kopargaon Dist. Ahmednagar

Subject: Request for admission to Certificate Course "LINUX" Operating system

Respected Sir,

I, the undersigned have been admitted in M.Sc.-II (Physics) class in our college. I wish to complete above certificate course run by our college. Kindly do me a favour by granting admission.

Autade
Yours faithfully

Recommended for admission to the certificate course.

Chairman
Certificate Course

Makade
Course Coordinator

[Signature]
Head
Department of Physics





Rayat Shikshan Sanstha's
S.S.G.M. College, Kopargaon
Dist. Ahmednagar



Admission form for Certificate Course 2020-21

Name: Pawar Mohini Kaena

Class: MSc II Physics

Address: A/p. Chandekasare, Tal. Kopargaon, Dist. A. Nagar

Mobile No. 8080732604

To,

The Principal,

S.S.G.M. College, Kopargaon Dist. Ahmednagar

Subject: Request for admission to Certificate Course "LINUX" Operating system

Respected Sir,

I, the undersigned have been admitted in M.Sc.-II (Physics) class in our college. I wish to complete above certificate course run by our college. Kindly do me a favour by granting admission.

Pawar
Yours faithfully

Recommended for admission to the certificate course.

[Signature]
Chairman
Certificate Course

[Signature]
Course Coordinator

[Signature]
Head
Department of Physics





Rayat Shikshan Sanstha's
S.S.G.M. College, Kopargaon
Dist. Ahmednagar



Admission form for Certificate Course - 2020-21

Name: Bhramant Harshada Balasahab

Class: M.Sc.-II (Physics)

Address: A.P. Shingave, Tal - Rahata, Dist. - A. Nagar

Mobile No. 8788002493

To,

The Principal,

S.S.G.M. College, Kopargaon Dist. Ahmednagar

Subject: Request for admission to Certificate Course "LINUX" Operating system

Respected Sir,

I, the undersigned have been admitted in M.Sc.-II (Physics) class in our college. I wish to complete above certificate course run by our college. Kindly do me a favour by granting admission.


Yours faithfully

Recommended for admission to the certificate course.


Chairman
Certificate Course


Course Coordinator


Head
Department of Physics



Notice

20/01/2021

All the students those who are enrolled for the Certificate Course "LINUX" Operating system are hereby informed that their lectures and practical's will start from 15th Feb 2021 in the Department of Physics.



Head
Department of Physics



Principal
S.S.G.M.College, Kopargaon



S.S.G.M.College, Kopargaon
 Department of Physics
 Certificate Course "LINUX" Operating System
 Time Table:15 Feb To 20 April 2021 (2020-21)

Time	Fri		Sat	
10:45am-1:45pm	Practical			
	Thorat.S.S.			
9:45am -10:45pm	Theory			
	Mon	Tue	Wed	Thurs
	Thorat.S.S.			




 Head,
 Department of Physics

S.S.G.M.College, Kopargaon
Department of Physics
Attendance(Theory) (2020-21)
Certificate Course "LINUX" Operating System

Sr.No.	Name of the Student	15/2/21	16/2/21	17/2/21	18/2/21	22/2/21	23/2/21	24/2/21	25/2/21
1	Miss.Autade.A.B.	P	P	P	P	P	P	P	A
2	Miss Barawant.H.B.	P	P	P	P	P	P	P	P
3	Miss Dhanwate J.C.	P	P	A	P	A	D	A	A
4	Miss Dhepale K.S.	P	P	P	P	P	P	P	P
5	Miss Ghogare S.N.	P	P	P	D	P	D	P	P
6	Miss Ghule.R.C.	P	D	P	P	P	A	P	D
7	Miss Musale.S.B.	P	P	P	A	P	D	P	A
8	Miss Nanaware .P.R.	A	P	P	P	P	D	P	P
9	Miss Narode.M.B.	P	P	A	A	A	D	A	D
10	Miss Pachore.P.A.	P	P	P	D	D	D	P	D
11	Miss Pawar.K.K.	A	P	P	P	P	A	P	D
12	Miss Pawar.M.K.	P	A	A	P	D	D	P	D
13	Miss Soundane,P.B.	P	P	P	D	D	P	P	D
14	Miss Shinde.P.V.	P	P	P	P	D	P	D	P



S.S.G.M.College, Kopargaon
 Department of Physics
Attendance(Theory) (2020-21)
 Certificate Course "LINUX" Operating System

Sr.No.	Name of the Student	01/03/21	2/3/21	3/3/21	4/3/21	8/3/21	9/3/21	10/3/21
1	Miss Autade.A.B.	P	P	P	P	A	P	P
2	Miss Barawant.H.B.	P	P	P	P	P	P	P
3	Miss Dhanwate J.C.	P	P	A	P	P	P	P
4	Miss Dhepale .K.S.	P	A	P	P	P	P	A
5	Miss . Ghogare S.N.	P	P	P	P	P	P	P
6	Miss Ghule.R.C.	P	P	P	P	A	P	P
7	Miss Musale.S.B.	P	P	P	A	P	A	P
8	Miss Nanaware .P.R.	P	A	P	P	P	P	P
9	Miss Narode.M.B.	P	P	P	P	P	P	P
10	Miss Pachore.P.A.	A	P	P	A	P	P	P
11	Miss Pawar.K.K.	P	P	P	P	P	P	A
12	Miss Pawar.M.K.	P	P	P	P	P	P	P
13	Miss Soundane,P.B.	A	P	P	P	P	P	P
14	Miss Shinde.P.V.	P	P	P	P	A	P	P



S.S.G.M.College, Kopargaon
Department of Physics
Attendance (2020-21)
Certificate Course "LINUX" Operating System

Sr.No.	Name of the Student	15/3/21	16/3/21	17/3/21	18/3/21	22/3/21	23/3/21	24/3/21
1	Miss Autade.A.B.	P	P	P	A	P	P	P
2	Miss Barawant.H.B.	P	P	P	P	P	P	P
3	Miss Dhanwate J.C.	P	P	P	P	P	P	P
4	. Miss Dhepale .K.S.	P	P	A	P	P	A	P
5	Miss Ghogare S.N.	A	A	P	P	P	P	A
6	Miss Ghule.R.C.	P	P	P	P	P	P	P
7	Miss Musale.S.B.	P	P	P	A	P	P	P
8	Miss Nanaware .P.R.	P	P	P	P	A	P	P
9	Miss Narode.M.B.	P	P	A	P	P	A	P
10	Miss Pachore.P.A.	A	P	P	P	P	P	P
11	Miss Pawar.K.K.	P	A	P	P	P	P	P
12	Miss Pawar.M.K.	P	A	P	A	P	P	P
13	Miss Soundane,P.B.	P	P	P	P	P	P	P
14	. Miss Shinde.P.V.	A	P	P	P	P	P	P



S.S.G.M.College, Kopargaon
Department of Physics
Attendance(Practical) (2020-21)
Certificate Course "LINUX" Operating System

Sr.No.	Name of the Student	26/2/21	27/2/21	05/3/21	6/3/21	12/3/21	13/3/21	19/3/21	20/3/21	26/3/21	27/3/21
1	Miss Autade.A.B.	P	P	P	A	P	P	P	A	P	P
2	Miss Barawant.H.B.	P	P	P	P	A	P	P	P	P	P
3	Miss Dhanwate J.C.	P	P	P	P	P	A	P	P	P	P
4	. Miss Dhepale .K.S.	P	P	P	P	P	P	A	P	P	P
5	Miss Ghogare S.N.	P	A	P	P	P	P	P	P	P	P
6	Miss Ghule.R.C.	P	P	P	P	P	P	P	P	P	P
7	Miss Musale.S.B.	P	P	A	P	P	A	P	P	P	P
8	Miss Nanaware .P.R.	P	P	P	P	P	P	A	P	P	P
9	Miss Narode.M.B.	P	P	P	P	P	P	P	P	A	P
10	Miss Pachore.P.A.	P	P	P	P	P	P	P	P	P	P
11	Miss Pawar.K.K.	P	P	P	P	A	P	P	P	P	P
12	Miss Pawar.M.K.	P	P	P	P	P	P	P	P	P	P
13	Miss Soundane,P.B.	P	P	P	P	P	P	P	P	P	P
14	. Miss Shinde.P.V.	P	P	P	P	P	P	P	P	P	P



S.S.G.M.College, Kopargaon
Department of Physics

Certificate Course in "LINUX" Operating System

Class	Name of the coordinator	Fee	Duration	No. of Students Enrolled
M.Sc.-II	Mr.Thorat.S.S	Rs.100/-	Three Months	14



Ukade
Head
Department of Physics,
S.S.G.M.College,Kopargaon

S.S.G.M.College, Kopergaon
Department of Physics
Class: M.Sc.-II (Physics) (2020-21)
Attendance

Name of The Teacher :

Paper :

Roll No.	Name of the student											
8526	Autade A.B	Autade	Autade		Autade		Autade	Autade	Autade	Autade	Autade	Autade
8527	Barwant H. B.	Barwant	Barwant	Barwant	Barwant	Barwant	Barwant	Barwant	Barwant	Barwant	Barwant	Barwant
8528	Dhanwate J.	Geel.	Geel.	Geel.	Geel.	Geel.	Geel.	Geel.	Geel.	Geel.	Geel.	Geel.
8529	Dheple K.S.	Apale	Apale	Apale	Apale	Apale	Apale	Apale	Apale	Apale	Apale	Apale
8530	Ghogare S.N.	Ghogare	Ghogare	Ghogare	Ghogare	Ghogare	Ghogare	Ghogare	Ghogare	Ghogare	Ghogare	Ghogare
8531	Ghule R.C	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule	Ghule
8532	Musale S.B.	Musale	Musale	Musale	Musale	Musale	Musale	Musale	Musale	Musale	Musale	Musale
8533	Nannaware P.R.	Nannaware	Nannaware	Nannaware	Nannaware	Nannaware	Nannaware	Nannaware	Nannaware	Nannaware	Nannaware	Nannaware
8534	Narode M.B.	Narode	Narode	Narode	Narode	Narode	Narode	Narode	Narode	Narode	Narode	Narode
8535	Pachore P.	Pachore	Pachore	Pachore	Pachore	Pachore	Pachore	Pachore	Pachore	Pachore	Pachore	Pachore
8536	Pawar K. K.	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
8537	Pawar M.K.	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar	Pawar
8538	Saudane S.B.	Saudane	Saudane	Saudane	Saudane	Saudane	Saudane	Saudane	Saudane	Saudane	Saudane	Saudane
8539	Shinde P. V.	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde	Shinde



Linux Multiple choice Questions and Answers List

1. Maximum how long can a Linux filename be?
A. 128 bytes B. 255 bytes C. 32 bytes D. 64 bytes

Ans: B

2. Which combination of keys is used to exit from terminal?
A. Ctrl + t B. Ctrl + z C. Ctrl + d D. Ctrl + e

Ans: C

3. Which command(s) is/are used to get help about a command in Linux?

A. info B. man C. None of these D. Both a and b

Ans: ...

4. Which of the following OS is not based on Linux?

A. Ubuntu B. Redhat C. CentOS D. BSD

Ans: D

5. Which command is used to get the kernel version in Linux?

A. uname -r B. kernel C. uname -n D. uname -s

Ans: A

6. Which command is used to list all the files in your current directory(including hidden)?

A. ls -lB. ls -tC. ls -a D. ls -i

Ans: C

7. Which command is/are used to remove directory in Linux?

A. rmdir B. rm -r C. only b D. Both a and b

Ans: D

8. Which key combination is used to see all the hidden files in Nautilus file manager?

A. Ctrl + Shift + h B. Ctrl + h C. Ctrl + Alt + h D. None of the above

Ans:

9. Which of the following command is used to create file in Linux?

A. touch B. cat C. echo D. All of the above

Ans: D

10. In Linux everything stored as a

A. file B. directory C. executables D. None of the above

Ans: ...

11. Which of the following is not a valid login shell in Linux?
A. C shell B. Net Shell C. Bash Shell D. Z shell
Ans: B

12. Which command is used to record session in Linux?
A. script B. session C. both a and b D. none of these
Ans: A

13. Which of the following command can be used as an alternative to echo command?
A. print B. printr C. printf D. none of these
Ans: C

✓14. Which command is used to change password of your Linux system?
A. password B. pass C. change -p D. passwd
Ans:

15. Which command is used see the list of users who are currently logged-in?
A. login B. users C. who D. which
Ans: C

16. Which directory in Linux contains all the config file of the system?
A. /etc B. /var C. /lib D. /bin
Ans: A

17. Which of the following command is used to know last shutdown/reboot date and time?
A. last B. lastlogin C. lastreboot D. lastshutdown
Ans: A

✓18. Which of the following command is used to count number of lines in a file?
A. wc -l B. wc -c C. wc -w D. None of these
Ans:

19. Which of the following statement is incorrect about /bin and /sbin directory?
A. /sbin contain only binaries essential for booting, restoring, Recovering, and/or repairing the system in addition to the binaries in /bin.
B. There is no difference between /bin and /sbin, they are just two directories
C. /bin contains commands that may be used by both the system administrator and by users, but which are required when no other filesystems are mounted.
D. Utilities used for system administration are stored in /sbin.
Ans: B

✓20. Which of the following command(s) is/are used to reboot a Linux system?
A. shutdown -h B. reboot C. init 6 D. All of the above
Ans:

21. Total no of run levels in a Linux system?

- A. 6 B. 7 C. 5 D. 8

Ans: B

22. Which command is used to copy entire directory?

- A. cp -r B. cp -l C. cp D. none of these

Ans: A

23. Suppose I am in /etc directory and I want to go to my home directory which command should I use?

- A. cd B. cd ~ C. Both A and B D. none of these

Ans: C

✓ 24. Which special character should be avoided during naming a file?

- A. .(dot) B. \$ C. _(underscore) D. -(Hyphen)

Ans: .

25. Which of the following is relative path to /home/sandeep directory?

- A. \$ cd Desktop/abc B. \$ cd Downloads/abc

- C. Both a and b D. \$ cd /etc

Ans: C

26. Suppose currently I am in /home/sandeep/Downloads/abc. After executing cd ../, where am I now?

- A. /home/sandeep B. /home/sandeep/Downloads

- C. /home D. None of these

Ans: A

✓ 27. Suppose I am in /etc directoy, after executing cd .(single dot), where am I now?

- A. /etc B. /(root) C. /home D. None of these

Ans: .

28. what is the purpose of -i in rm -i command?

- A. It will ask for confirmation before every deletion.

- B. It just an extra option

Ans: A

29. mv command can be used to ?

- A. Move the file to different directory. B. Renaming a file

- C. Both a and b. D. Only a.

Ans: C

✓ 30. Which of the following command is used to display content of a file in octal format?

- A. octal B. cat C. oct D. od

Ans: .

31. In Linux which of following command do you use to know the purpose of a command?
A. which B. whatis C. what D. purpose

Ans: B

32. What is the process id of init process?

A. 2 B. 6 C. 4 D. 1

Ans: D

33. Suppose I have made some changes in my Php.ini file and I want to restart my Apache server, which of following command should I use?

A. sudo service apache2 restart
B. sudo /etc/init.d/apache2 restart
C. Both A and B
D. Only A

Ans: C

✓34. Which command is used to show process hierarchy in tree format?

A. ps -tree
B. pstree
C. ps -t
D. none of these

Ans:

✓35. Which of the following command is used to see the content of tar(backup.tar) file without extracting it?

A. tar -xvf backup.tar
B. tar -svf backup.tar
C. tar -tvf backup.tar
D. none of these

Ans:

36. Which command is used to execute the last command you have executed?

A. !!
B. !-1
C. Both A and B
D. Only A

Ans: C

37. What is the purpose of id command?

A. Print effective and real UID
B. Print effective and real GID
C. Print effective and real UID and GID
D. None of these

Ans: C

38. Which command is used to print the login shell of an user?

A. echo \$SHELL

45. What is the range of nice number in linux system ?

- A. 0 to 19
- B. -20 to 19
- C. -20 to 0
- D. -10 to 10

Ans: B

✓ 46. On success fork return _____ to parent process ?

- A. 0
- B. 1
- C. parent process id
- D. child process Id

Ans: \

47. Which of the following command kill all the process including shell ?

- A. kill kill 0
- B. kill -9 kill 0
- C. kill -s kill 0
- D. Both B and C

Ans: D

✓ 48. Which of the following statement is true ?

- A. echo \$\$ return PID of login shell and echo \$? return status of last command
- B. echo \$\$ return status of last command and echo \$? return PID of login shell
- C. echo \$\$ and echo \$? return some integer value of no significance
- ✓ D. All of the statements are false

Ans:

49. Priority of the process can be changed using which of the following command ?

- A. nice
- B. chpriority
- C. renice
- D. Not allowed to change process priority

Ans: C

✓ 50. In _____ state of a process, the process will be terminated and the information will still be available in the process table.

- A. Interruptible
- B. Uninterruptible
- C. Zombie
- D. Running

Ans:

- B. echo \$LOGIN
- C. echo \$SHELL
- D. None of the Above

Ans: C

39. Which of the following command return the exit status of last command?

- A. \$!
- B. \$\$
- C. \$?
- D. \$#

Ans: C

40. which command is used to print the current working direcotry?

- A. pwd
- B. echo \$PWD
- C. Both A and B
- D. Only A

Ans: C

✓ 41. What is ppid(parent process id) of daemon process in Linux ?

- A. any arbitrary number
- B. 1

Ans: B

42. What is context switch?

- A. Process switches from user mode to kernel mode
- B. Process switches from kernel mode to user mode
- C. Kernel switches from one process to another process
- D. None of these

Ans: C

✓ 43. Maximum number of processes exist in Linux system ?

- A. 32768
- B. 1024
- C. 2048
- D. 16384

Ans: D

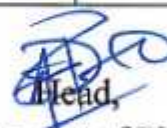
44. Which of the following command keep a process running even after you logout from your shell?

- A. &
- B. nohup
- C. bg
- D. hup

Ans: B

S.S.G.M.College, Kopargaon
Department of Physics
Certificate Course "LINUX" Operating System
Result (2020-21)

Roll No.	Name of the Student	Marks out of 25
8526	Miss.Autade.A.B.	24
8527	Miss Barawant.H.B.	19
8528	Miss.Dhanwate.J.C	23
8529	Miss.Dhepale.K.S.	19
8530	Miss.Ghogare.S.N.	19
8531	Miss.Ghule.R.C.	19
8532	Miss.Musale.S.B.	25
8533	. Miss.Nanaware P.R.	22
8534	Miss.Narode.M.B.	AB
8535	Mr.Pachore.P.A	22
8536	Mr.Pawar.K.K.	19
8537	Miss.Pawar.M.K.	23
8538	Miss.Soundane.P.B.	24
8539	Miss Shinde.P.V.	23


Head,

Department of Physics





Rayat Shikshan Sanstha, Satara
Karmaveer Vidya Prabodhini



CERTIFICATE

This is to certify that Shri / Smt

..... (Class) of

(College)

..... has successfully completed


a short term course in

Academic year 20 20 (From To) and

secured Grade.

80 and above - A Grade
65 to 79 - B Grade
50 to 64 - C Grade

PRINCIPAL


Executive Director
Karmaveer Vidyaprabodhini


Chairman
Karmaveer Vidyaprabodhini