GPCET
Pioneering Innovative Education

G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade | Accredited
by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

DATE: 11-10-2022

To

The Principal, GPCET, Kurnool.

Sir,

Sub: Approval of ADD-ON course for III AI and II AI Students-Regd

The department of CAI requests you to accept the proposal for conducting ADD-ON Course
on "**Linux Administration**" for the odd semester of II year and III year CAI students scheduled
for the duration of 42 hours. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

P. SUMAN PRAKASH

HOD-CAI

PRINCIPAL
G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)

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Department Circular –ADD-ON Course

DATE: 11-10-2022

The II year-I semester IOT Students are informed to enroll their names for ADD-ON Course on **"Linux Administration"** with their respective class-in-charges on or before 11-10-2022. The course commences from 11 October and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

Bus facility is made available soon after the class work.
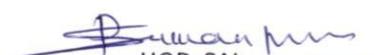
HOD-CAI

FOR ADD-ON COURSE ON Linux Administration Syllabus

DAY	TOPICS
1	Overview of Linux Operating System, Linux File System Hierarchy
2	Linux Command Line Basics
3	Basic System Administration Tasks, Knowledge Check and Assignment
4	User and Group Administration
5	File and Directory Permission
6	User Authentication Methods, Lab: Managing Users and Permissions
7	File System Types and Structures
8	Disk Partitioning and Formatting
9	Mounting and Unmounting File Systems
10	Lab: Managing File Systems and Disks
11	Linux Security Principles
12	User Authentication and Authorization
13	Access Control Lists (ACLs)
14	Networking Basics in Linux
15	Configuring Network Services
16	Firewall Configuration
17	Knowledge Check and Assignment
18	Software Package Management
19	Installing and Removing Software Packages
20	Software Updates and Patch Management
21	Knowledge Check and Assignment
22	System Monitoring and Troubleshooting
23	Performance Monitoring Tools

24	Troubleshooting Common Issues
25	Lab: Monitoring and Troubleshooting

G. PULLAIAH COLLAGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CAI
ADD ON COURSE SCHEDULE
DATE :12/10/2022   II YEAR AND III YEAR

COURSE	Faculty	Duration
Overview of Linux Operating System, Linux File System Hierarchy	M. Janardan	3 hours
Linux Command Line Basics, Basic System Administration Tasks	M. Janardan	3 hours
User Authentication Methods	M. Janardan	3 hours
File System Types and Structures, Disk Partitioning and Formatting	M. Janardan	3 hours
Mounting and Unmounting File Systems	M. Janardan	3 hours
Linux Security Principle	M. Janardan	3 hours
User Authentication and Authorization, Access Control Lists (ACLs)	M. Janardan	3 hours
Networking Basics in Linux	M. Janardan	3 hours
Configuring Network Services, Firewall Configuration	M. Janardan	3 hours
Knowledge Check and Assignment, Software Package Management	M. Janardan	3 hours
Software Updates and Patch Management	M. Janardan	3 hours
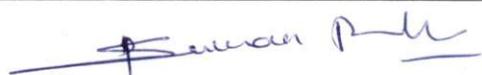
System Monitoring and Troubleshooting	M. Janardan	3 hours
Performance Monitoring Tools	M. Janardan	2 hours
Troubleshooting Common Issues	M. Janardan	2 hours

G PULLAIAH COLLEGE OF ENGINEERING &TECHNOLOGY: KURNOOL (Autonomous)

Department of Computer Science and Artificial Intelligence

The following is the list of the students who have registered Add on Course on "Linux Administration"

III-I AI students

Sno	Roll no	Name
1	20AT1A3120	V.KARTHIK REDDY
2	20AT1A3121	N.KARTHIKEYA
3	20AT1A3122	UPPALA KAVYA
4	20AT1A3123	Ediga Kedhari
5	20AT1A3124	BANDA KUMAR
6	20AT1A3125	KOTTIDINTI LAHARI
7	20AT1A3126	BANDI LALITHA .
8	20AT1A3127	AVVARU LIKHITHA
9	20AT1A3128	UPPARA MOUNIKA
10	20AT1A3129	N.NAGATEJA
11	20AT1A3130	B.NARASIMHA REDDY
12	20AT1A3131	RAYANKI NIKHITA
13	20AT1A3132	B.Niranjan
14	20AT1A3133	LEBAKU NIVEDITHA
15	20AT1A3134	SANGALA PAVAN KRISHNA
16	20AT1A3135	M.Venkata Pavani
17	20AT1A3136	YADAVA POOJITHA BAI
18	20AT1A3137	Pera Pragna
19	20AT1A3138	Chitla Pravallika Devi
20	20AT1A3139	Komanduri Greeshma Radheetha
21	20AT1A3140	G HARI PRASAD
22	20AT1A3141	DUDEKULA SADHAF
23	20AT1A3142	BUDDIGA LALITH SAI AMRUTH
24	20AT1A3143	AMARAVAI GOKULA SAI BHARGAVA GOUD
25	20AT1A3144	BOYA SAI KEERTHANA
26	20AT1A3145	P SAI KUMAR
27	20AT1A3146	LAKKI REDDY SAI SHIVANI
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31	20AT1A3150	G.SHANMUKHASAI SREENIVAS
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42	20AT1A3161	GOLLA VENKATESWARLU
43	20AT1A3162	SUNAR WASIM JAVED
44	20AT1A3163	JAYAM AMARNATH
45	20AT1A3164	KOLLI SRUJANA
46	20AT1A315	J GIDDAIAH

II-I AI Students

Sno	Rollno	Name
1	21AT1A3101	A AVINASH REDDY
2	21AT1A3102	A GNANA DEEPTHI
3	21AT1A3103	AKKALAREDDY VENKATA MANOJ KUMAR REDDY
4	21AT1A3104	ALLAMPALLI CHANDRA SEKHAR
5	21AT1A3105	ALLANAGARI RENUKA
6	21AT1A3106	ARAVETI SRIKAR
7	21AT1A3107	B AJAY KUMAR
8	21AT1A3109	B.RAHUL
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42	21AT1A31C0	VINUKONDA SANDHYA
43	21AT1A31C1	YARRAJENNI GNANESWARI
44	21AT1A31C2	SHAIK NOOR BASHA
45	21AT1A31C3	VEMULA DRAKSHAYANI
46	21AT1A31C4	GOPIREDDY ABHIJITH HEMANTH REDDY
47	21AT1A31C5	LAKSHMI REDDY GARI YASWITHA
48	21AT1A31C6	PINJARI SHASHAVALI
49	21AT1A31C7	MALA RAGHAVENDRA
50	21AT5A3104	KUMMARI CHAKRAVARTHI

G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY
(AUTONOMOUS)

Department Of Computer Science and Engineering
(Artificial Intelligence)

ADD ON COURSE

Topic : Linux Administration
Target audience : II and III Year Students
Total Course Duration : 40 hrs
Selection Procedure : Registration on First come First serve basis

FREE   Register Now

Date of commencement of the course : 12 Oct,2022.
End of Course : 27 Jan, 2023.
Exam Date: 28 Jan,2023.

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Objective exam

1. What is the primary advantage of using Linux as an operating system?

    A. Proprietary licensing

    B. Limited customization options

    C. Open-source nature

    D. Exclusive graphical user interface

2. Where are system configuration files typically located in the Linux file system?

    A. /var

    B. /home

    C. /etc

    D. /bin

3. Which command is used to list files and directories in a Linux terminal?

    A. ls

    B. cp

    C. mv

    D. rm

4. What is the purpose of the "ps" command in Linux?

    A. Print system configuration

    B. Display active processes

    C. Create a new process

    D. Pause a running process

5. What command is used to create a new user in Linux?

    A. useradd

B. userdel

C. passwd

D. usercreate

6. In the context of Linux file permissions, what does "rwx" represent?

A. Read, Write, Execute

B. Remove, Write, Exit

C. Run, Write, Execute

D. Read, Write, Exit

7. Which authentication method involves the use of password files in Linux?

A. Biometric authentication

B. Single Sign-On (SSO)

C. Public key authentication

D. Password-based authentication

8. What is the purpose of the "ext4" file system in Linux?

A. Network file sharing

B. Journaling file system

C. Encrypted file system

D. Compressed file system

9. Which command is used to partition a disk in Linux?

A. fdisk

B. mkfs

C. mount

D. format

10. What does the "umount" command do in Linux?

A. Mount a file system

B. Display disk partitions

C. Unmount a file system

D. Create a new directory

11. What is the primary goal of implementing security measures in Linux?

A. Increase system complexity

B. Enhance user experience

C. Protect system integrity and data D. Facilitate remote access

12. What is the purpose of the "su" command in Linux?

    A. Switch user

    B. Show users

    C. Secure update

    D. System upgrade

13. What do Access Control Lists (ACLs) provide in Linux?

    A. Additional user authentication

    B. Extended file permissions

    C. Automated system backups

    D. Real-time system monitoring

14. Which command is used to display network configuration information in Linux?

    A. ipconfig

    B. ifconfig

    C. netstat

    D. route

15. What service is responsible for translating domain names to IP addresses in Linux?

    A. DHCP

    B. DNS

    C. HTTP

    D. FTP

16. Which command is used to configure a firewall in Linux?

    A. ufw

    B. firewall-cmd

    C. iptables

    D. firewalld

17. What command is used to install software packages in Linux using the package manager?

    A. apt-get

    B. yum

C. pacman

D. pkg

18. How can you uninstall a software package in Linux using the package manager?

    A. rpm -install

    B. apt-get remove

    C. pkg add

    D. pacman -uninstall

19. What command is used to update the package repository in Linux?

    A. yum update

    B. apt-get upgrade

    C. pacman -Syu

    D. update-pkg-repo

20. What is the purpose of the "top" command in Linux?

    A. Display system uptime

    B. Monitor running processes

    C. List available packages

    D. Show disk usage

21. Which tool is commonly used for monitoring CPU usage in Linux?

    A. htop

    B. iostat

    C. sar

    D. vmstat

22. What is the first step in troubleshooting network connectivity issues in Linux?

    A. Check hardware connections

    B. Restart the system

    C. Reinstall network drivers

    D. Update the operating system

23. Which file is commonly edited to configure network settings in Linux?

    A. /etc/network/interfaces

    B. /var/log/network.log

C. /bin/networkconfig

D. /usr/share/network/settings

24. What is the purpose of the "dpkg" command in Debian-based Linux distributions?

    A. Display package information

    B. Install software packages

    C. Remove software packages

    D. Configure package dependencies

25. Which command is used to check the status of a specific service in Linux?

    A. service status

    B. systemctl status

    C. check-service

    D. status-service

GPCET

G PULLAIAH COLLEGE OF ENGINEERING &TECHNOLOGY: KURNOOL (Autonomous) Department of Computer Science and Artificial Intelligence
The following is the list of the students who have appeared for assessment Add on Course on

"Linux Administration"

Evaluation Sheet

III YEAR-I SEMESTER

sno	Roll no	Name	Marks
1	20AT1A3120	V.KARTHIK REDDY	22
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44	20AT1A3163	JAYAM AMARNATH	19
45	20AT1A3164	KOLLI SRUJANA	17

46	20AT1A3115	J GIDDAIAH	24

II YEAR- I SEMESTER

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38	21AT1A31B6	VALMIKI NARASIMHA NAIDU	2
39	21AT1A31B7	VANGALA VENUGOPAL REDDY	25
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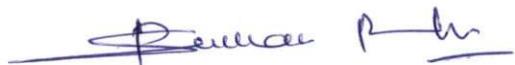
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