AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

IAF-AVADI, CHENNAI - 55

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

STUDENT CIRCULAR

Date: 25-06-2019

The Department of Computer Science and Engineering plans to conduct a value added Course **"LINUX SYSTEM ADMINISTRATION"** by **Mr. S SENTHIL KUMAR, "ELBOUND SYSTEM PRIVATE LIMITED"**, for the benefit of III year B.E CSE Students. This Course is Scheduled from **01-07-2019 to 27-07-2019** at **4.00 P.M.** To **5.50 P.M.** for 36 hours in 4 weeks. All students must attend all classes with 75% attendance and score 50% on the Quiz. Students who complete the course successfully will receive certificates.

25/06/2019

HOD/CSE

HEAD
Computer Science & Engineering
Aalim Muhammed Salegh
College of Engineering

Copy to:

Principal

IQAC

Resource Person: Mr. S. Senthil Kumar

CSE Faculty Members

III Year CSE Students Whatsapp group

HOSTEL/TransportSupervisor

Campus Manager/Campus Engineer

CHENNAI
600 055

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COLLEGE OF ENGINEERING

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by AICTE and Affiliated to Anna University Chennai

NAAC **PALS** **ARIIA**

TNEA Counselling CODE: 1101

Department of Computer Science and Engineering

organizes

VALUE ADDED COURSE ON

LINUX SYSTEM ADMINISTRATION FOR-III YEAR CSE STUDENTS

DATE: 1-07-2019 TO 27-07-2019

TIME: 4.00PM TO 5.50PM

RESOURCE PERSON
S. SENTHIL KUMAR
ELBOUND SYSTEMS PRIVATE LIMITED

Dr.R.Shankar
HOD/CSE

Prof.Dr.Afzal Ali Baig
Principal
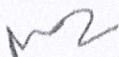
Alha jS Segu Jamaludeen
Secretary & Correspondent

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IAF-AVADI, CHENNAI - 55

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE-ADDED COURSE- SUMMARY REPORT

COURSE NAME: LINUX SYSTEM ADMINISTRATION

Date: 01-07-2019 To 27-07-2019

Time: 4.00 P.M to 5.50 P.M

Speaker: Mr. S Senthil Kumar

Course Hours: 36

No of weeks: 4

No of Modules: 4

Students Registered: 57

Attended Students: 57

Students Certified: 57

Objective of the Course:

- **Understanding Linux Basics**: Equip students with foundational knowledge about Linux distributions, installation processes, and the Linux filesystem hierarchy

- **Command Line Proficiency**: Enable students to navigate the terminal confidently and use essential commands for file and directory management, as well as manage file permissions.

- **System Configuration Skills**: Teach students about package management, system services, and daemons, including an understanding of systemd.

- **Advanced Administration Techniques**: Provide insights into storage management, performance tuning, and monitoring tools for effective system administration.

Summary of the course : A total of 57 Students were Participated the course Linux System Administration .The students will learn how to search for the position of Linux Systems Administrator which allows me to make effective use of my technical skills while also developing new ones along the way.

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Course Outcomes:

Upon successful completion of this course,students should be able to:

- **Install and Configure Linux**: Successfully install various Linux distributions and understand their unique features and file system structures.

- **Utilize Command Line Tools**: Effectively navigate the Linux command line and perform basic file operations while managing permissions and ownership.

- **Manage Software and Services**: Install, update, and remove software packages; manage system services using systemd; and understand the importance of run levels and targets.

- **Administer System Storage**: Comprehend the concepts of partitions and logical volume management, and manage disks and file systems effectively.

A. Saravanan
29/7/2019

COURSE COORDINATOR

R. Shanker
29/07/2019
HOD/CSE
HEAD
Computer Science & Engineering
Aalim Muhammed Salegh
College of Engineering

CHENNAI
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From   Date: 20-06-2019

     The HOD,

     Department of Computer Science and Engineering,

     Aalim Muhammed Salegh College of Engineering,

     Muthapudupet, Avadi,

     Chennai- 600 055.

To

     The Principal,

     Aalim Muhammed Salegh College of Engineering,

     Muthapudupet, Avadi,

     Chennai - 600 055.

Subject: Requisition for Approval of Value-Added Course on "Linux System Administration"- Reg.

Respected Sir,

     We would like to arrange a Value-Added Course on the title "Linux System Administration" for third-year CSE students. The Course will be conducted by "Mr. S.Senthil Kumar", M/s Elbound Systems. The Value-Added Course will be conducted from 01.07.2019 to 27.07.2019. So we kindly request you to provide approval for the same.
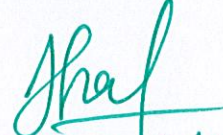
Thanking you

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

Yours Faithfully

20/06/2019
HOD/CSE

Permitted

20/06/2019
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COLLEGE OF ENGINEERING
AVADI - IAF, MUTHAPUDUPE
CHENNAI 600 055

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IAF-AVADI, CHENNAI - 55

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Value Added Course Details

Course Name: Linux System Administration   **Date : 01-07-2019 to 27-07-2019**

Week	Content	Total Hours
1	**Module 1: Introduction to Linux** **Linux Basics** • Overview of Linux distributions • Installing Linux (Ubuntu, CentOS, etc.) • Understanding the Linux filesystem hierarchy **Command Line Basics** • Navigating the terminal • Basic commands: ls, cd, cp, mv, rm, mkdir, rmdir • Understanding file permissions and ownership (chmod, chown, chgrp)	9
2	**Module 2: System Configuration and Networking** **Package Management** • Installing and removing software (APT for Debian/Ubuntu, YUM/DNF for CentOS/RHEL) • Understanding package repositories **System Services and Daemons** • Introduction to systemd • Managing services (systemctl start/stop/status) • Understanding runlevels and targets	9

3	**Module 3: Advanced Administration** **Storage Management** - Understanding partitions, LVM, and filesystems - Managing disks and filesystems (fdisk, mkfs, mount, umount) - Backup strategies and tools (rsync, tar) **System Performance Tuning** - Monitoring system performance - Identifying bottlenecks - Tools: top, iotop, vmstat, sar	9
4	**Module 4: Final Projects and Best Practices** **Monitoring and Logging** - Installing and configuring monitoring tools (Nagios, Zabbix) - Centralized logging with syslog or ELK stack **Security Best Practices** - Hardening a Linux server - Implementing backups and recovery plans	9
Total Hours		36

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE NAME:LINUX SYSTEM ADMINISTRATION　　　　**TIMING:4.00 P.M TO 5.50 PM**

S.No	DATE	COURSE CONTENT
1	01/07/2019	Overview of Linux distributions,Installing Linux (Ubuntu, CentOS, etc.)
2	02/07/2019	Understanding the Linux filesystem hierarchy
3	03/07/2019	Navigating the terminal, Basic commands: ls, cd, cp, mv, rm, mkdir, rmdir
4	04/07/2019	Understanding file permissions and ownership (chmod, chown, chgrp)
5	05/07/2019	Installing and removing software (APT for Debian/Ubuntu, YUM/DNF for CentOS/RHEL)
6	08/07/2019	Understanding package repositories
7	09/07/2019	Understanding package repositories
8	10/07/2019	Introduction to systemd, Managing services (systemctl start/stop/status)
9	11/07/2019	Understanding runlevels and targets
10	12/07/2019	Understanding partitions, LVM, and filesystems
11	15/07/2019	Managing disks and filesystems (fdisk, mkfs, mount, umount), Backup strategies and tools (rsync, tar)
12	16/07/2019	Monitoring system performance,
13	18/07/2019	Identifying bottlenecks
14	19/07/2019	Tools: top, iotop, vmstat, sar
15	22/07/2019	Tools: top, iotop, vmstat, sar
16	23/07/2019	Installing and configuring monitoring tools (Nagios, Zabbix)
17	24/07/2019	Installing and configuring monitoring tools (Nagios, Zabbix)
18	25/07/2019	Centralized logging with syslog or ELK stack
19	26/07/2019	Hardening a Linux server
20	27/07/2019	Implementing backups and recovery plans

A.Salavanan
25/6/19

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MUTHAPUDUPET, AVADI-IAF ,CHENNAI
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
COURSE NAME:LINUX SYSTEMS ADMINISTRATION
ATTENDENCE SHEET

S.NO	REG.NO	NAME OF THE STUDENTS	1/7	2/7	3/7	4/7	5/7	8/7	9/7	10/7	11/7	12/7
1	110117104003	AFREENFATHIMA A										
2	110117104004	AHAMED RIYAZ M										
3	110117104005	AHMED SUFYAN M										
4	110117104006	AKIF ABDUL AZEEM										
5	110117104007	ALI ASKAR A										
6	110117104009	CADER SAHIB RIMAS M Z										
7	110117104012	HAMEED AKSHAL A										
8	110117104016	JESILA BANU A										
9	110117104021	MIR MUDASSIR ALI										
10	110117104023	MOHAMED EJLAL A										
11	110117104030	MOHAMED SHEIK RABIS S										
12	110117104031	MOHAMED THANVEER M										
13	110117104032	MOHAMED YAMEEN Z										
14	110117104035	MOHAMMED JUFFRI M										
15	110117104038	MOHAMMED RAFEEQ K										
16	110117104039	MOHAMMED THAHSEEN N										
17	110117104041	MUBARAK BASHA H										
18	110117104042	MUHAMED NOORUL AMEEN M R										
19	110117104045	NOOR E ARSHIYA C										
20	110117104046	NOOR MUHAMMED M G										
21	110117104047	RASIKA NANDKISHOR MANKAR										
22	110117104048	RIFAT MOHAMMED T R										
23	110117104049	RIYAZ ALI F										
24	110117104050	SAFIN SIRAJ A										
25	110117104051	SAMRA FATHIMA S										
26	110117104053	SANDHIYA V										
27	110117104055	SIRISHMA N										
28	110117104057	SWATHI N										
29	110117104058	SYED WASIM AHAMED T										
30	110117104002	ABDUL SATHAR A										

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31	110117104008	AMJATH ASHIFA M									
32	110117104010	CHOKKAPU GANESH									
33	110117104011	DIVYA M									
34	110117104013	HAROON S B									
35	110117104014	HASAN ABDUL KADER J K									
36	110117104018	MAHESHKALA P									
37	110117104019	MAJITH AL RASHEETH A									
38	110117104020	MARWAN J									
39	110117104024	MOHAMED HARISH M									
40	110117104025	MOHAMED IMRAN M									
41	110117104026	MOHAMED JUNAID M									
42	110117104027	MOHAMED MATHEEN S									
43	110117104029	MOHAMED RASHAD J									
44	110117104033	MOHAMMED AZARUDIN A									
45	110117104034	MOHAMMED FALIL									
46	110117104036	MOHAMMED MOHSIN KHAN									
47	110117104037	MOHAMMED MUSTHAFA AFRUDEEN S									
48	110117104040	MOHAMMED ZAID AHMED									
49	110117104043	MUZAFFAR M									
50	110117104052	SANDHIYA G									
51	110117104054	SHAHIDH AFSHAR M									
52	110117104056	SUMAN RAJ R									
53	110117104059	TAJAMUL ARAFATH V P									
54	110117104060	VELPRASANTH P									
55	110117104501	SAJJAATH A S									
56	110117104502	MOHAMMED NADHIM S									
57	110117104701	FAKIHA RUBAB S									

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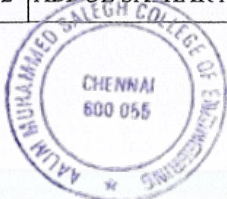COLLEGE OF ENGINEERING

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MUTHAPUDUPET, AVADI-IAF, CHENNAI
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
COURSE NAME: LINUX SYSTEMS ADMINISTRATION
ATTENDENCE SHEET

S.NO	REG.NO	NAME OF THE STUDENTS	15/7	16/7	18/7	19/7	22/7	23/7	24/7	25/7	26/7	27/7
1	110117104003	AFREENFATHIMA A										
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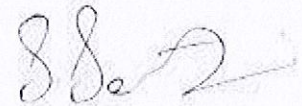| 31 | 110117104008 | AMJATH ASHIFA M | | | | | | | | | | Amir |
32	110117104010	CHOKKAPU GANESH										
33	110117104011	DIVYA M	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya	Divya
34	110117104013	HAROON S B	Haroon	Haroon	Haroon	Haroon	Haroon	Haroon	Haroon	Haroon		Haroon
35	110117104014	HASAN ABDUL KADER J K										
36	110117104018	MAHESHKALA P										
37	110117104019	MAJITH AL RASHEETH A										
38	110117104020	MARWAN J										
39	110117104024	MOHAMED HARISH M	Harish	Harish	Harish	Harish		Harish	Harish	Harish		Harish
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50	110117104052	SANDHIYA G	Sandhiya	Sandhiya	Sandhiya	Sandhiya	Sandhiya	Sandhiya	Sandhiya	Sandhiya	Sandhiya	Sandhiya
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52	110117104056	SUMAN RAJ R	Suman	Suman	Suman	Suman	Suman	Suman	Suman	Suman	Suman	Suman
53	110117104059	TAJAMUL ARAFATH V P	Tajamul	Tajamul	Tajamul	Tajamul		Tajamul	Tajamul	Tajamul		Tajamul
54	110117104060	VELPRASANTH P										
55	110117104501	SAJJAATH A S	Sajjaath	Sajjaath	Sajjaath	Sajjaath	Sajjaath	Sajjaath	Sajjaath			Sajjaath
56	110117104502	MOHAMMED NADHIM S	Mhd nadim	Mhd nadim	Mhd nadim	Mhd nadim	Mhd nadim	Mhd nadim	Mhd nadim	Mhd nadim		Mhd nadim
57	110117104701	FAKIHA RUBAB S										Fafa

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SI.NO:19171101003

31.07.2019

CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms AFREENFATHIMA A **(Reg no: 110117104003)** Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on **"Linux System Administration"** held from 01st July 2019 to 27th July 2019.

DIRECTOR

S SENTHIL KUMAR

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600 055

Sl.NO:19171101004

31.07.2019

CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms **AHAMED RIYAZ M (Reg no: 110117104004)** Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on **"Linux System Administration"** held from 01st July 2019 to 27th July 2019.

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SI.NO:19171101005

31.07.2019

CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms **AHMED SUFYAN M (Reg no: 110117104005)** Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on **"Linux System Administration"** held from 01st July 2019 to 27th July 2019.

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SI.NO:19171101006

31.07.2019

CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms **AKIF ABDUL AZEEM(Reg no: 110117104006)** Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on **"Linux System Administration"** held from 01st July 2019 to 27th July 2019.

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SI.NO:19171101007

31.07.2019

CERTIFICATE OF COMPLETION

This is to certify that Mr/Ms **ALI ASKAR A (Reg no: 110117104007)** Department of Computer Science and Engineering at Aalim Muhammed Salegh College of Engineering, IAF Avadi has successfully completed the Value-Added Course on **"Linux System Administration"** held from 01st July 2019 to 27th July 2019.

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