ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavan Campus, Mijar, Moodbidri - 574225

(Affiliated to Visvesvaraya Technological University, Belagavi
Approved by AICTE, New Delhi & Recognized by Government of Karnataka)

Activity Report on

"Edwins' Linux Lab"

Academic Year

2016 - 2017

Contents

1. Vision , Mission and Objectives of the Lab

Vision

Developing a culture of open source environment, which is a type of licensing agreement that allows users to freely modify a work, use said work in new ways, integrate the work into a larger project or derive a new work based on the original.

Mission

Open-source software is computer software that is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute the software and its source code to anyone and for any purpose. Open-source software may be developed in a collaborative public manner.

Objectives

- The objective of this lab is to introduce the students to LINUX kernel programming techniques and also the advanced C systems programming and debugging techniques in a LINUX environment. In this lab students are able to describe and use the fundamental LINUX system tools and utilities. Problems in the field of networking, data structures and system software can be easily built on Linux platform because of the various inbuilt system calls available in Linux.

- The main objective of the Linux lab is **to make the students aware of the features and capabilities of Linux** so that they can utilize its improved functionalities to develop new Linux based software and can also contribute to the development of the operating system itself.

2. Establishment details of the lab

Alva's Institute of Engineering & Technology, Moddbidri. Department of Computer Science & Engineering established an Edwins' Lab during the Academic Year 2016-17. Prof. Edwin, Former Professor of Philadelphia University was the incharge for the lab. The lab is established to explore the open source softwares in the Linux platform. The various workshops have been conducted and in this lab for the students of AIET.

Outer view of Edwins' Linux Lab

Prof. Edwin's explaining to the students

3. Equipment/System Details

List of Software
- LINUX O.S.
- C/C++ for Linux
- Java for Linux

List of Hardware
- PC – 20
- Workstation – 01
- Laser jet Printer – 01
- Network Switch – 02
- Multimedia Projector – 01
- UPS 10 KVA – 01

4. Activities carried out under Linux Lab

Conducting various workshops use of open source softwares and providing the students continuously through various training sessions about the usage of open source environment, Open-source software is computer software that is released under a license in which the copyright holder grants users the rights to use, study, change, and distribute the software and its source code to anyone and for any purpose. Open-source software may be developed in a collaborative public manner.

5. Composition details

Coordinator & Faculty : Dr. Madhusudhan S,

Sr. Assistant Professor ,

Department of CSE, AIET, Moodbidri

Alva's Institute of Engineering & Technology

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Circular

It is hereby informed to all the CSE/ECE/ISE students that, FIVE Days workshop on "Free Open Source Software- Bootable Linux OS Via Flash Drive" was organized FROM 5th September, 2016 to 9th Septemebr,2016 for the 2nd year CSE/ECE and ISE students. Prof. Edwin, Former Professor, Philadelphia University, Australia will be the resource person of the workshop. Interested students can register your names with HOD CSE

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CC to:

HOD ECE

HOD ISE

All Class Rooms

Report on Linux Workshop

FIVE Days workshop on "Free Open Source Software- Bootable Linux OS Via Flash Drive" was conducted during 5th September, 2016 to 9th Septemebr,2016 for the 2nd year CSE/ECE and ISE students. Prof. Edwin, Former Professor, Philadelphia University, Australia served as a resource person of the workshop. About 300 students of CSE/ISE and ECE were participated in this workshop.

The Resource person Prof. Edwin brief explained the history of Puppy Linux and demonstrated the students to how to boot the OS using flash drive. "Puppy Linux is a unique family of Linux distributions meant for the home-user computers. It was originally created by Barry Kauler in 2003"

Puppy Linux advantage

1. Ready to use → all tools for common daily computing usage already included.
2. Ease of use → grandpa-friendly certified ™
3. Relatively small size → 200 MB or less.
4. Fast and versatile.
5. Customisable within minutes → remasters.

6. Different flavours → optimised to support older computers, newer computers.
7. Variety → hundreds of derivatives ("puplets"), one of which will surely meet your needs.

Puppy Linux is *not* a single Linux distribution like Debian. Puppy Linux is also *not* a Linux distribution with multiple flavours, like Ubuntu (with its variants of Ubuntu, Kubuntu, Xubuntu, etc) though it also comes in flavours.

Puppy Linux is **a collection of multiple Linux distributions**, built on the *same shared principles*, built *using the same set of tools*, built on top of a *unique set of puppy specific applications and configurations* and generally speaking provide *consistent behaviours and features*, no matter which flavours you choose.

Date: 20th Nov, 2020

CIRCULAR

It is hereby informed to all the students that a technical talk "Cyber Security" is organized 25th Nov 2020 by Mr. Akash, Associate Software Engineer, EY, Bangalore. Interested students can register your names with Lab Incharge.

Venue: Edwin's Linux Lab

Lab In-charge

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REPORT ON SESSION "CYBER SECURITY"

RESOURCE PERSON: MR. AKASH M, EY, Bangalore

As a part of activities conducted by Edwin Linux Lab, Mr. Akash M gave a talk on "**CYBER SECURITY** " on 25th Nov 2020.

Akash M explained the various concepts of Cyber Security. Students were introduced to Network and networking concepts. All the students learnt about IP address, MAC address, Modem, Router, firewall. Further, students were made aware of activities on internet, by getting familiar with Cyber-attacks and how to protect them.

Mr. Aksha also addressed about Honey Pot, DDOS during his talk. About 25 students of the 4th years were attended the talk.
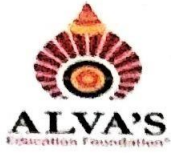
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REGISTRERD & ATTENDED STUDENTS LIST

Sl.No	Name
1.	Athul Raj
2.	BH Rashmi
3.	Bhagyashree bajantri
4.	Bhoomika m
5.	Chaitra P Shetty
6.	Chandan Kumar VS
7.	Chandan kumar M G
8.	chetan m wali
9.	Chinmaya Bhat K K
10.	Chinmaya Dayananda Kamath
11.	Gowda vijay puttaraju
12.	Indraja R
13.	Jayanth G
14.	K.Vinay
15.	Meghana S
16.	Muhammad saqib Hassan
17.	Narendra Mutalik
18.	Natasha Saldanha
19.	Neha
20.	Nichenametla Bhagya Sree
21.	Nischal M R
22.	Pavan kumar
23.	Pooja Rajesh Talekar
24.	Karunakar
25.	Prajna S P

Madhusudhan. S
Lab Incharge

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EDWINS LINUX LAB

Date: 10th Jan, 2021

CIRCULAR

It is hereby informed to all the students that, the technical talk on "Linux Open Source Environment" is organized on 17th Jan 2021 by Mr. Vedanth V , 2nd Year CSE. Interested students can participate.

Venue: Edwin's Linux Lab

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REPORT ON SESSION "LINUX OPEN SOURCE ENVIRONMENT "
RESOURCE PERSON: MR. VEDANTH V

As a part of activities conducted by Edwin Linux Lab, Vedanth V, 2nd Year CSE Students gave a talk on "Linux Open Source Environment" on 17th Jan 2021.

Vedanth V gave a talk on Linux Open Source Environment. Students learnt many things about Linux and open source. We learnt many commands and the way to use Linux OS. We also had a group presentation of the topics given. Students also got a very good image, Linux and its user interface. Has we had to research the topics, students learnt in-depth on IoT Linux, Different types of OS, Networking, Hacking.
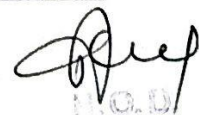
Madhusudhan S

STUDENTS ATTENDANCE LIST

Sl.	Name
1.	Giriprasad Patil
2.	Girish Kudlappagol
3.	Gowda vijay puttaraju
4.	Indraja R
5.	Jayanth G
6.	K.Vinay
7.	Karthik bs
8.	Kartik Kulkarni
9.	Kavya K.P.
10.	Kavya Mahesh Sureban
11.	Kotappa Y Gandudi
12.	Krushika M
13.	Ksheera R Shetty
14.	M Ravichandra
15.	Mantesh h dollin
16.	Meghana Nekar
17.	Meghana S
18.	Muhammad saqib Hassan
19.	Narendra Mutalik
20.	Natasha Saldanha
21.	Neha
22.	Nichenametla Bhagya Sree
23.	Nischal M R
24.	Pavan kumar
25.	Pooja Rajesh Talekar
26.	Karunakar
27.	Prajna S P
28.	Pranav Kalidas
29.	Pratheeka Shiva Karkera
30.	Pratheeksha.Rao
31.	Prathiksha shetty
32.	Prinson dsouza
33.	Priyanka Shet
34.	Pruthviraj. D.A
35.	Pushpitha.p
36.	Puttaraj
37.	Rachana C
38.	Rakshitha s m

Madhusudhan. S

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EDWINS' LINUX LAB

Date: 15th Jan, 2021

CIRCULAR

It is hereby informed to all the members of the Edwins Linux Lab that, a Guest talk is organized on 11th Feb 2021 at 11 am on "Problem Solving Skills" by Prof. Sathwik, AJET, Moodbidri.

Venue: Edwin's Lab

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REPORT ON SESSION "PROBLEM-SOLVING SKILLS"
RESOURCE PERSON: MR. SATHVIK

As a part of activities conducted by Edwin Lab, Prof. Sathvik, NITK Surathkal gave a talk on "Problem Solving Skills" on 11th Feb 2021.

Prof Sathvik said Problem-solving skills help you determine the source of a problem and find an effective solution. Although problem-solving is often identified as its own separate skill, there are other related skills that contribute to this ability.

Finally, after students' queries, gave vote of thanks and winded up the session. About 30 students were actively involved in the session.
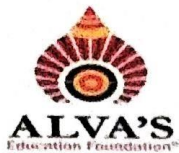
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Students Attendance List

Sl.No	Name
1.	Chinmayee S
2.	Madhura k J
3.	Rahul P T
4.	Abhishek.B. K
5.	Abhishek Gowda K
6.	Adam M Sanadi
7.	Adish.k
8.	Ajay.N
9.	Akhilesh Herkal
10.	Akhilesh v
11.	Akshitha C V
12.	Amisha Shetty
13.	Anesh Somanath Majalikar
14.	Anooj Raj
15.	Apoorva hosamani
16.	Ashik H R
17.	Ashlyn Josna Dcosta
18.	Ashwin Shetty
19.	Athokpam Lolan Luwang
20.	Athul Raj
21.	BH Rashmi
22.	Bhagyashree bajantri
23.	Bhoomika m
24.	Chaitra P Shetty
25.	Chandan Kumar VS
26.	Chandan kumar M G
27.	chetan m wali
28.	Chinmaya Bhat K K
29.	Chinmaya Dayananda Kamath
30.	Darshan Naik M.G.
31.	Darshan s
32.	Deesha D Shenoy
33.	Deltus. Baselios. Paul
34.	Divyashree Mahesh
35.	Divyashree S K
36.	Ganavi
37.	Ganesha Shetty
38.	Gayathri

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EDWINS LINUX LAB

Date: 20th Nov, 2021

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The Edwins Linux Lab is organized a Workshop on "C Programming" for interested first year students. It is hereby informed to all the first year students that, interested can give their names with the Edwins' Linux Lab incharge. The 5 days of the workshop FROM 10th Dec 2021 to 15th Dec, 2021 by Prof. Vishal Vanaki.

Venue: Edwin's Lab

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Lab In-charge

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REPORT ON SESSION " 'C' PROGRAMMING LANGUAGE"
RESOURCE PERSON: MR. VISHAL VANAKE

As a part of activities conducted by Edwin Linux Lab, Prof. Vishal Vanaki took a workshop of 5 days on "C Programming language" on 10th Dec 2021

Prof Vishal took a 5 days' workshop on C Programming Language. Started with the basics of C and thought about all the concepts from the Root. He gave the many examples and stories related to the concepts to make them more understandable. The students were asked many queries and session was completely interactive.

Finally, after 5 days of the workshop, we gave a vote of thanks and winded up the session. About 30 Students were actively involved in the session and the feedback back was collected. The students were satisfied with the workshop.

Madhusudhan.S

The following students of the first years were attended the C Programming Workshop

Sl.No	Name
1.	Sameer Shaik
2.	Sanjay.S
3.	Shameer abdul kader
4.	Shamjetshabam Noren Singh
5.	Shetty ashwitha shekar
6.	Shetty Sushmita rajeeva
7.	Shifali S Rao
8.	Shravana S
9.	Shravya shetty
10.	Shreyas H
11.	Shreyas M
12.	Shrunga G S
13.	Sindhu R
14.	Sneha U B
15.	Soumya Ashok Malakannavar
16.	Soundarya S Siddanagoudra
17.	Srinidhi M
18.	Sudarshan ulhas baadkar
19.	Swasthik
20.	Tulasi.H.Uchila
21.	Upasana Shenoy R U
22.	V.Jahanavi
23.	Vaibhav Shridhar Soorinje
24.	Vaishanavi T
25.	Vamsha
26.	Vikas T.N
27.	Vinay C T
28.	Vinayak ugargol
29.	Vishesh r shetty
30.	Yuvraj J R

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