BRAC UNIVERSITY

Inspiring Excellence

Department of Computer Science and Engineering

Course Code: CSE484	Credits: 1.5
Course Name: Cloud Computing	

Lab 01

Introduction To Ubuntu

I. Topic Overview:

Students will learn the basics of Ubuntu and familiarize themselves with the basic commands of Ubuntu using the terminal. They will learn about dual boot mode and VMware/virtualbox to run Ubuntu and perform the required tasks that need to be done.

II. Lesson Fit:

For this lab, students need to understand how Ubuntu operates in virtual machines or in dual boot mode. They need to set it up and learn about the Ubuntu commands. Also, they need to know how these commands work to get the desired result.

III. Learning Outcome:

After this lecture, the students will be able to:

a. Understand the functionality of VMware/virtualbox or dual boot mode.
b. Gain basic knowledge of how the commands work.
c. Perform different operations using the commands.

IV. Anticipated Challenges and Possible Solutions

a. Students might get stuck while installing the dual boot mode to run Ubuntu on their devices.

Solutions:

i. They can try installing the VMware/virtualbox instead of the dual boot mode. This will help them to run Ubuntu in a virtual environment.

V. Acceptance and Evaluation:

Students will be evaluated by the completion of a given task(s). If they are able to finish the task(s) within the given timeframe, they will be given full marks. Otherwise, partial marks can be considered for half or partial completion of the task(s).

VI. Activity Detail:

A. Hour: 1

Discussion: (Introduction to Ubuntu and Assignment 1) Explaining and giving the students ideas about Ubuntu and its functionality. Helping the students understand how Ubuntu works. Also, guiding them to get started with the basic commands of Ubuntu.

Problem Task: Get started with the Assignment Tasks.

B. Hour: 2

Discussion: (Term Project Discussion) Giving the students ideas about the term project. Step by step showing and explaining how they should get started and progress with the project. Explain the guidelines and updates that need to be shown by the students.

Problem Task: Going through the 'Project And Paper Guidelines' and solving queries.

C. Hour: 3

Discussion: (Group Formulation And Latex Overview) Group formation and run through the document preparation system called LaTeX that will be used to present and show the works of their project.

Problem Task: Getting the students familiarized with Latex.

Instructions for students:

1. Submit a PDF file of the assignment. Rename your file as 'id_firstname_assign1.pdf'.
2. DEADLINE will not be extended, for everyday late submission marks will be deducted by 10%.

Lab 01 Activity List

Assignment 1

Let's Get Familiar With Ubuntu

MUST READ:

https://thesecmaster.com/introduction-to-ubuntu/

https://www.linode.com/docs/guides/linux-users-and-groups/

1. Write down some different kinds of cloud computing applications that are not in Google. Most importantly, don't discuss anything with your friend. Write by yourself. If I get a single word match with your friend, then the marks will be entirely zero.
2. Install Ubuntu in dual boot mode or in VMware/VirtualBox. You need a bootable pendrive for this. Search Google how to set up Ubuntu in dual boot mode or using other software.

Your username should be **<firstname>**

And host-name should be **<lastname-studentid>**

You must follow this convention, without this convention you will not be given any marks in the assignments.

For example, the student's name is Mofiz Uddin, and id is 12345678.

So, your terminal should look like mofiz@uddin-12345678. The first part username is mofiz and 2nd part hostname/pc name is uddin-12345678

Start learning some basic commands in Ubuntu, try to get familiar with the Ubuntu terminal, and run every basic command. You can use the link below and make a document. That will be your first assignment.

Sample Link:
https://techlog360.com/basic-ubuntu-commands-terminal-shortcuts-linux-beginner/

(Try at least 20 commands)

Be Careful when writing assignments. For every command you need to write at first the description of the commands, that is what the commands are done actually. After, just add the output of the screenshot. That's it. Very easy assignment :)