

Linux System

Chonnam National University
School of Electronics and Computer
Engineering

Kyungbaek Kim

Syllabus

- Instructor
 - Kyungbaek Kim
 - Office : Engineering Building 6 – 715
 - Email : kyungbaekkim@jnu.ac.kr
 - Office Hours : Tuesday 10:00 ~ 10:50
- Lectures : Tuesday, Thursday 13:30 ~ 14:45
- Location : Engineering Building 2-100
- Course Web Page :
 - eClass of JNU
 - http://myweb.jnu.ac.kr/~kbbkim/jnu_classes/2019s_linux_system_index.html

Syllabus (cont'd)

- Textbook
 - Using Lecture Slides
- Reference Books
 - UNIX and Linux System Administration Handbook (4th Edition), Evi Nemeth, Garth Snyder, Trent R. Hein, Ben Whaley
 - 우분투 리눅스, 시스템 & 네트워크, 이종원
 - 리눅스 바이블, 크리스토퍼 네거스
 - 한눈에 빠져드는 셸 스크립트, 데이브 테일러

Grading Policy

<<*Absolute Evaluation*>>

- Attendance – 10 points
 - 1.5 Points Deduction/Absence
 - 0.5 Points Deduction/Lateness
 - *More than six (6) unexcused absences may result in an automatic failure of this course*
- Homework – 35 points
 - Tentatively scheduled for 8~10 sets of homework
 - Late submission takes disadvantages
- Midterm Exam – 25 points
 - Tentatively scheduled on 2019/04/23 13:30pm~14:45pm
- Final Exam – 30 points
 - Tentatively scheduled on 2019/06/13 13:30pm~14:45pm

- *Students taking less than 60 points are subject to fail this course*

Homeworks

- 8–10 exercises
 - Self Guided Tutorial of Handling Linux
 - Exercises of playing with Linux
- Due of each homework will be posted through eClass
 - Usually, one and half week
- *Late submission policy*
 - *50% degradation for one week delay*
 - *No more delays except one week will be considered*

After this class, you will ...

- Use a linux client
- Manage a linux server as an administrator

Lecture Schedule

- Introduction of Unix/Linux System
 - History of Linux
 - Installation of Linux using VMWare
- Users and accounts
 - System Login, logout, and shutdown
 - Creating/changing users and groups
- Files and Directories
 - Handling Files and Directories
 - Linux Directories
 - Compressing files and directories
- Access Control of Linux
 - Changing permission and ownership

Lecture Schedule (cont'd)

- Text Editors
 - Vi, Vim, Emacs
- Documents and Software Packages
 - Managing documents of Linux
 - Managing software packages
- System Logs and Scheduled tasks
 - System Logs
 - Cron Jobs
- File System of Linux
 - Inode and Directories
 - Hard and Symbolic Links

Lecture Schedule (cont'd)

- Handling Disks of Linux
 - Partition of Filesystem
 - Filesystem Mount and Unmount
 - Set and view Disk Quotas
- Job and Process Control
 - Job control commands
 - Process creation and deletion
 - Daemon Processes
- Network of Linux
 - Basic Network Commands
 - Remote accessing
 - handling servers (ftp, web)

Lecture Schedule (cont'd)

- Boot Linux
 - Boot sequence
 - Running level and shutdown or reboot the system
- Shells of Linux
 - Shell Variables
 - Basic Shell Commands
 - Linux Environment
 - Shell Programming
- Text Processing
 - Filtering texts
 - Searching with Regular expression
- gcc and projects (Introduce gcc and make, automake and autoconf)