

# 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 11:00 ~ 11:45
- Lectures : Tue, Thur 13:30 ~ 14:45
- Location : Engineering Building 6-105
- Course Web Page :
  - eClass of JNU
  - [http://myweb.jnu.ac.kr/~kbbkim/jnu\\_classes/2016s\\_linux\\_system\\_index.html](http://myweb.jnu.ac.kr/~kbbkim/jnu_classes/2016s_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
  - Ubuntu Unleashed 2011 Edition: Covering 10.10 and 11.04 (6th Edition), Matthew Helmke, Andrew Hudson, Paul Hudson

# Grading Policy

- Attendance – 10 %
- Homework – 40 %
  - Tentatively scheduled for 6~7 sets of homework
  - Late submission takes disadvantages
- Midterm Exam – 25 %
  - Tentatively scheduled on 2016/04/19  
13:30pm~14:45
- Final Exam – 25 %
  - Tentatively scheduled on 2016/06/16  
13:30pm~14:45

# Homeworks

- 6–7 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)