

CSGE602055 Operating Systems

CSF2600505 Sistem Operasi

Rahmat M. Samik-Ibrahim

University of Indonesia at Lenteng Agung

<http://rahmatm.samik-ibrahim.vlsm.org/>

REV04 29-Aug-2016

Agenda

- 1 Start
- 2 Agenda
- 3 Operating Systems
 - The Lecturer
 - Terms of Conditions
 - Puss In Boot
 - Goal
- 4 Assesment
- 5 ETC
- 6 Resources
- 7 Schedule
- 8 The End

- UILA: since 1984.
- GNU/Linux user: since 1994.
- VauLSMorg (vlsm.org): since 1996.
- Blog: rahmatm.samik-ibrahim.vlsm.org/
 - Blog: 2016/08/panggil-saya-rahmat.html
 - Blog: 2013/10/kumpulan-hal.html
- Twitter: @rms46
- Facebook Page: facebook.com/RMS46F/
- Contact: via SCELE - Operating Systems REG/MTX/INT/EXT
<https://scele.cs.ui.ac.id/course/view.php?id=124>

Terms of Conditions

- ① My name is Rahmat. There shall no other name then Rahmat!
- ② Thou shall not be late for the lecture!
- ③ Thou shall not swear and not be noisy in the classroom!
- ④ Remember the Operating System time slot. Prepare for a quiz!
- ⑤ Honour thy lecturer's privacy. No Puss in Boots, please!
- ⑥ Thou shall not play games in the classroom!
- ⑦ Thou shall not net chatting in the classroom!
- ⑧ Thou shall not borrow from your neighbour during a quiz or examination!
- ⑨ Thou shall not wrongly answer the quiz or examination!
- ⑩ Thou shall not covet your neighbour's quiz or examination sheet!

Honour thy lecturer's privacy.

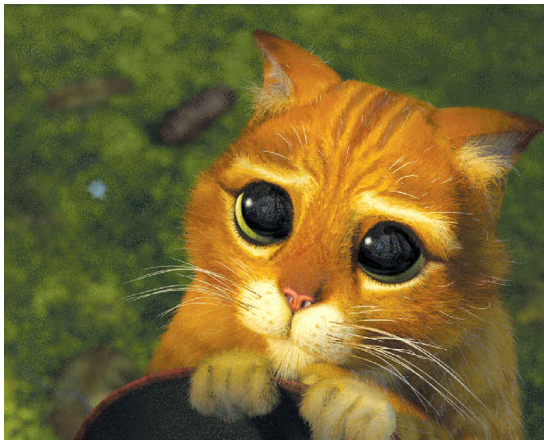


Figure : No Puss in Boot, please!¹.

¹This is a fair use of a DreamWorks/Paramount Picture character.

Goal

Coverage

This is an introduction to a modern operating systems course. It will cover general overview, computer architecture review, operating system overview, software licenses, GNU/Linux CLI, versioning, scripting, C language overview, protection, security, gnupg, processes and threads, addressing and pointers, memory management, virtual memory, synchronization, mutual exclusion, deadlock, CPU scheduling algorithms, file systems.

Student-Centered

This course is student-centered where responsibility is in the hands of the students. Students are expected to be prepared for the class meeting.

GNU/Linux

Students will have a thorough understanding of how GNU/Linux provides services by using a Command Line Interface.

85 - ... = A	80 - 85 = A-	75 - 80 = B+	70 - 75 = B
65 - 70 = B-	60 - 65 = C+	55 - 60 = C	50 - 55 = D or C ¹

- Midterm: 6 problem sets @ 6 points (=36).
- Final: 5 problem sets @ 6 points (=30).
- Pre-midterm assignments: 6 sets @ 3 points (=18).
- Post-midterm assignments: 5 sets @ 3 points (=15).
- Extra: 1 point¹.
- C-2C: upto 5 points¹.
- Midterm remedy/replacement: upto 3 points¹.
- Final remedy/replacement: upto 3 points¹.
- You are allowed to bring a cheat-sheet (A4 size) to the exam room¹.

¹Terms and conditions apply

- SCELE: <https://scele.cs.ui.ac.id/course/view.php?id=124>
 - Enrollment key: "01101010"¹.
 - Check the "Announcement" regularly.
 - Topic of the week will be in the weeks section.
- ARCHIVE:
<https://scele.cs.ui.ac.id/course/view.php?id=126>
 - Enrollment key: "11001100"¹.
 - Check it out!
- There will be **No Lab. Assistant.**
- There will be **No Teaching Assistant.**
- There will be **Grader only.**
- Go to SEKRE (B Building 2nd floor) for any administrative issues!

¹For a limited time only!

- Any recent Operating System text book published - say - less than 10 years ago.
- UCB — (ARSIP)(070_KULIAH-INTERNASIONAL) UC Berkeley
- UDA — (ARSIP)(070_KULIAH-INTERNASIONAL) UDACITY
- ETC — (ARSIP)(075_ETC-Video) ETC
- OSC2E — (ARSIP)(050_OSC-Silberschatz) OSC2E

Schedule

- Week00 – Intro (OSCE2e ch1/2)(UCB 01)(UDA P1L1/2)
- Week01 – IPR, CLI, GIT, Scripting (ETC 000 001 002) + Any Shell Scripting - Git - AWK - SED - REGEX Tutorial.
- Week02 – Protection & Security (OSCE2e ch13/14) (ETC 050 051) + Any C Language Tutorial
- Week03 – Processes & Threads (OSCE2e ch3/4) (UCB 02 03) (UDA P2L1/2/3)
- Week04 – Addressing & Pointer (Any C Language Tutorial)
- Week05 – Memory (OSCE2e ch7/8) (UCB 11 12 13) (UDA P3L2)
- UTS 00 01 02 03 04 05
- Week06 – Synchronization (OSCE2e ch5) (UCB 7/8) (UDA P3L3/4)
- Week07 – Scheduling (OSCE2e ch6) (UCB 9/10) (UDA P3L1)
- Week08 – File System (OSCE2e ch10/11) (UCB 18/19) (UDA P4L2)
- Week09 – Storage System (OSCE2e ch9) (UCB 17A (UDA P4L4))
- Week10 – Cloud System & Virtualization (UCB 24)
- UAS 06 07 08 09 10

The End