

# CSGE602055 Operating Systems

## CSF2600505 Sistem Operasi

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# Agenda

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- 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.

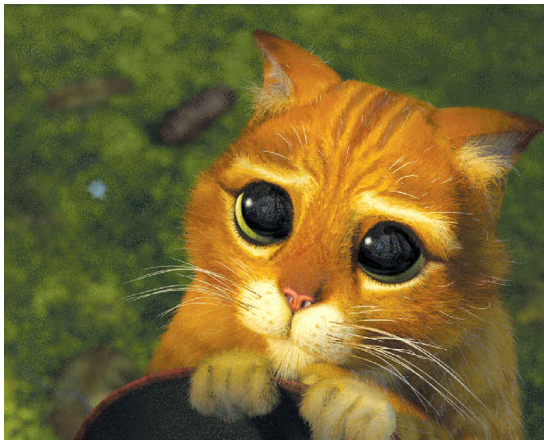


Figure : No Puss in Boot, please!<sup>1</sup>.

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<sup>1</sup>This 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.

- SCELE: <https://scele.cs.ui.ac.id/course/view.php?id=124>
  - Enrollment key: "01101010"<sup>1</sup>.
  - 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"<sup>1</sup>.
  - 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!

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<sup>1</sup>For a limited time only!

- Any recent Operating System text book published - say - less than 10 years ago.
- OLD — (ARSIP)(017\_BAHAN-AJAR-LAMA) Previous Slides.
- OSC2E — (ARSIP)(050\_OSC-Silberschatz) OSC2E
- UCB — (ARSIP)(070\_KULIAH-INTERNASIONAL) UC Berkeley
- UDA — (ARSIP)(070\_KULIAH-INTERNASIONAL) UDACITY
- ETC — (ARSIP)(075\_ETC-Video) ETC



# Schedule

- Week00 – Intro (OSCE2e ch1/2)(UCB 01)(UDA P1L1/2) (OLD 00)
- Week01 – IPR, CLI, GIT, Scripting (ETC 000 001 002) (OLD 02-HKI 02-scripting) + 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

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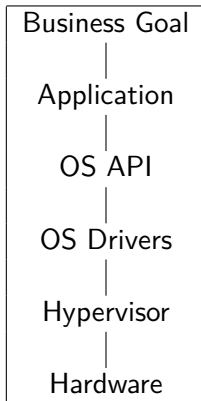
85 - ... = A	80 - 85 = A-	75 - 80 = B+	70 - 75 = B
65 - 70 = B-	60 - 65 = C+	55 - 60 = C	50 - 55 = D or C <sup>1</sup>

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- 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 point<sup>1</sup>.
- C-2C: upto 5 points<sup>1</sup>.
- Midterm remedy/replacement: upto 3 points<sup>1</sup>.
- Final remedy/replacement: upto 3 points<sup>1</sup>.
- You are allowed to bring a cheat-sheet (A4 size) to the exam room<sup>1</sup>.

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<sup>1</sup>Terms and conditions apply



- Account: Google, Github, SSO
- Scele
- Report/Wait
- Cek Home

# The End

- This is the end of the presentation.