

## Open Source Software Development (CT213H - FALL 2024)

### Instructor:

- Thái Minh Tuấn – Ph.D., Lecturer – Faculty of Information Technology – College of Information and Communication Technology
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### Classroom:

- CICT
- 30 hours lecture + 30 hours lab

### Grading:

- 05 Lab reports 5 x 7% = 35%
- 01 Group project 15%
- Attendance 10%
- 01 Final exam (multiple choice questions) 40%

### Course Materials:

- Slides & handouts
- Textbook: No textbook for the class
- Courses from Linux Foundation Training (<https://training.linuxfoundation.org/>)
  - [1] A Beginner's Guide to Open Source Software Development (LFD102)
  - [2] Open Source Licensing Basics for Software Developers (LFC191)
  - [3] Fundamentals of Professional Open Source Management (LFC210)
  - [4] Introduction to Linux (LFS101)
  - [5] A Beginner's Guide to Linux Kernel Development (LFD103)

### Readings:

- [6] E. Nemeth, G. Snyder, T. R. Hein (Author), B. Whaley, D. Mackin, "UNIX and Linux System Administration Handbook, 5th Edition," Addison-Wesley, 2017
- [7] Karl Fogel, "Producing Open Source Software," O'Reilly Media, 2009.
- [8] N-K. Phạm, T-N. Đỗ. Linux và phần mềm nguồn mở. NXB Đại học Cần thơ, 2011.

### Tentative schedule:

Week	Topic	Note
1	<ul style="list-style-type: none"><li>- Course introduction</li><li>- Introduction to FOSS</li></ul>	
2	<ul style="list-style-type: none"><li>- Introduction to FOSS (cont.)</li><li>- OSS licensing and legal issues</li></ul>	

3	- OSS licensing and legal issues (cont.) - Working on OSS projects	
4	Lab 01 -	
5	- Linux basic	
6	Lab 02 -	
7	- Resource virtualization	
8	Lab 03 -	
9	- Version control - Git and GitHub	Group project registration
10	Lab 04 -	
11	- Linux kernel development process	
12	Lab 05 -	
13	- CI/CD	
14	Lab 06 -	
15	Group project presentation	
16	Final exam	