



VNU-HCMUS
FACULTY OF INFORMATION TECHNOLOGY

Chapter 0
Course Introduction

Instructor: **Vu Thi My Hang, Ph.D.**
TA/Lab Instructor: **Le Quoc Hoa, M.Sc.**

CSC10007 – OPERATING SYSTEM

General Information

Course:	CSC10007 – Operating System (Hệ điều hành)
Knowledge block:	Pre-major requirements (compulsory)
Number of credits:	4
Instructors:	<p><i>Theory Instructor:</i> Vu Thi My Hang, Ph.D.</p> <p><i>TA / Lab Instructor:</i> Le Quoc Hoa, M.Sc.</p>
Contact Info:	<p>Moodle: https://courses.fit.hcmus.edu.vn [Diễn đàn ...]</p> <p>Email: vtmhang@fit.hcmus.edu.vn (Theory)</p> <p>lghoa@fit.hcmus.edu.vn (Lab)</p> <p><i>Please respect the following guidelines when sending your email; failure to do so may result in your email being disregarded.</i></p> <p>Email Topic: [21_1_HDH] ...</p> <p>Email Content: Must include your student code and name.</p>

Course Goals

- Explain a lot of practical information about how programming languages, operating systems, and architectures interact and how to use each effectively.
- Show how the operating system is structured and its components work.
- Use and manipulate computers and computer program.
- Use the specialized English terminology in Operating System.
- Apply some skills at the individual and the teamwork level to present problems in the Operating System.

Course Topic

- Chapter 1: Introduction to Operating System (Tổng quan về Hệ điều hành)
- Chapter 2: Process and Interprocess Communication (Tiến trình)
- Chapter 3: CPU Scheduling (Điều phối CPU)
- Chapter 4: Thread and Thread Synchronization (Tiểu trình và đồng bộ hoá)
- Chapter 5: Deadlock (Bế tắc)
- Chapter 6: Memory Management (Quản lý bộ nhớ)
- Chapter 7: Virtual Memory (Bộ nhớ ảo)
- Chapter 8: Disk and File System (Đĩa và Hệ thống tập tin)
- Chapter 9: I/O Management (Quản lý nhập xuất) [Self-Learning]

Teaching Plan

Room: Linh Trung-G302, Time: Tuesday, 07:45 – 11:00

Week	Date	Topic	Assignment
1	19.09.23	Chapter 1: Introduction to Operating System	
2	26.09.23	Chapter 2: Process and IPC	BTLT-01 (Chapter 1-2)
3	03.10.23	Chapter 3: CPU Scheduling	BTLT-02 (Chapter 3)
4	10.10.23	Chapter 4: Thread and Thread Synchronization	
5	17.10.23	Review for the midterm exam	BTLT-03 (Chapter 1-3)
6	24.10.23	Midterm Examination (in Vietnamese) Chapter 1, 2, 3 (Quiz, Essay) One A4-sized document allowed.	

Teaching Plan

Room: Linh Trung-G302, Time: Tuesday, 07:45 – 11:00

Week	Date	Topic	Assignment
7	31.10.23	Chapter 4 (cont.) Chapter 5: Deadlock	BTLT-04 (Chapter 4, 5)
8	07.11.23	Chapter 6: Memory Management Chapter 7: Virtual Memory	
-	14.11.23	SESSION CANCELED	
9	21.11.23	Chapter 7 (cont.)	BTLT-05 (Chapter 6, 7)
10	28.11.23	Chapter 8: Disk and File Management	
11	05.12.23	Review for the final exam	BTLT-06 (All topics)

Grading & Regulation

Topic	Ratio
Assignments (BTLT-01 → BTLT-06)	10%
Midterm Exam <i>One A4-sized document allowed.</i>	20%
Final Exam <i>One A4-sized document allowed.</i>	40%
Lab Results	30%
Bonus	+5%
Total Score	100% (+ 5%)

- Cheating and plagiarism → Total Score = 0

