Chapter 0

Course Introduction

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

General Information

Course:	**CSC10007 – Operating System (Hệ điều hành)**
Knowledge block:	Pre-major requirements (compulsory)
Number of credits:	4
Instructors:	
Theory Instructor:	**Vu Thi My Hang, Ph.D.**
TA / Lab Instructor:	**Le Quoc Hoa, M.Sc.**
Contact Info:	**Moodle**: https://courses.fit.hcmus.edu.vn [Diễn đàn …] **Email**: vtmhang@fit.hcmus.edu.vn (Theory) lqhoa@fit.hcmus.edu.vn (Lab) *Please respect the following guidelines when sending your email; failure to do so may result in your email being disregarded.* *Email Topic*: [21_4_HDH] … *Email Content*: Must include your student code and name.

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, 12:45 – 16:00

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, 12:45 – 16:00

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 *One A4-sized document allowed.*	20%
Final Exam *One A4-sized document allowed.*	40%
Lab Results	30%
Bonus	+5%
Total Score	**100% (+ 5%)**

- Cheating and plagiarism → Total Score = 0