School of Computer Science and Engineering

LABORATORY MANUAL

SC2005
Operating Systems

Understanding of Nachos Kernel

SESSION 2022/2023
SEMESTER 1

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
NANYANG TECHNOLOGICAL UNIVERSITY

IMPORTANT INFORMATION

1.   CONTENT

This laboratory manual consists of 4 Experiments (Experiments 1, 2, 3 and 4) spread over 4 lab sessions.

2.   LABORATORY SCHEDULE

The laboratory schedule is as follows:

Laboratory session 1	Experiment 1 on Nachos Threads
Laboratory session 2	Experiment 2 on CPU Scheduling
Laboratory session 3	Experiment 3 on Process Synchronization
Laboratory session 4	Experiment 4 on Virtual Memory

Lab attendance is compulsory. Makeup is only available for valid reasons (with official supporting document).

3.   ASSESSMENT

The assessment of the lab component for this course consists of implementation review and two quizzes.

- **Lab Implementation (18%)**
  - Correct implementation and output generation for each lab experiment – 3% for lab 1, 5% each for labs 2 - 4
  - TA or Lab Supervisor will compile/execute your code and evaluate your implementation
  - Deadline is 1 week after your corresponding lab session (e.g., if lab session is from 10AM-12PM on a Monday, then deadline is 9:59AM on the next Monday).
  - **Remember to leave your implementation and all generated outputs in your folder, and DO NOT modify the folder structure, folder names or file names in anyway**

- **Lab Multiple-Choice Quizzes (25%)**
  - Quiz 1: On Lab 1 and Lab 2 topics – 5th Oct.
  - Quiz 2: On Lab 3 and Lab 4 topics – 10th Nov.
  - **Both the quizzes will be released through NTULearn**

4.   REMOTE ACCESS

For remote access, please refer to the instructions in SC2005 Lab Guidelines document.