



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

**FACULTY OF COMPUTING**  
UTM Johor Bahru

### PC Assemble (Lab)

Subject : Technology and Information Systems (SECP 1513)  
Section : 05  
Name of Lecturer : Dr. Azurah A Samah  
Date : 25 OCT 2023  
Title : PC Assemble (Lab)

#### Profile



Name: Yap En Thong  
Matric Number: A23CS0284  
E-mail:  
[enthongy04@gmail.com](mailto:enthongy04@gmail.com)  
Phone number: 010-8201396  
Course: SECJH

Comments by Grader:

## **Introduction**

On the 25th of October 2023, our group, Group 2, embarked on an exciting journey into the complexities of PC assembly during a dedicated lab session from 4 to 5 p.m. The lab was designed to provide hands-on experience with disassembling and reassembling a personal computer. This immersive session not only allowed us to explore the inner workings of a computer but also gave us valuable insights into the various components that make this indispensable device.

### **Disassembling the PC:**

Our guide for the disassembly process followed a comprehensive approach, acknowledging the diverse reasons one might need to dismantle a computer, whether for upgrading components, cleaning, or sheer curiosity. The steps outlined below guided our group through the disassembly process:

#### **1. Unplug your computer and peripheral items:**

- Turn off the computer and disconnect all peripheral devices.
- Wear a grounding strap or discharge static electricity by touching an unpainted metal part of the computer.

#### **2. Remove side covers:**

- Take off at least one side cover, usually the right side, for easier access.
- Disconnect all connectors and remove card readers and internal DVD players.

#### **3. Disconnect connectors:**

- Disconnect all connectors and remove any card readers and internal DVD players.

#### **4. Remove standalone fans:**

- Detach standalone fans, providing an opportunity for cleaning if necessary.

#### **5. Remove the storage drive:**

- Disconnect cables and remove the storage drive, held in place by screws.

#### **6. Remove memory (RAM) modules:**

- Release RAM modules by pushing the clips on both ends down.

#### **7. Remove power supply unit:**

- Unplug the connectors and unscrew the power supply unit from the frame.

## **8. Remove motherboard adapter or expansion cards:**

- Remove any adapter or expansion cards from the motherboard.

## **9. Remove the motherboard:**

- Disconnect all cables and unscrew the motherboard from the frame gradually.

With these steps, all components were successfully removed from the computer case, providing an opportunity for thorough inspection and cleaning.

## **Reassembly and Quiz:**

When rebuilding the computer, the guide told us to start with the motherboard and install the other components in the opposite order. Reassembling everything was made easier by reconnecting all of the cables as parts were installed.

The session concludes with a paper quiz that assesses our comprehension of the PC assembly process in addition to the practical experience. The topics of the quiz ranged from component identification to the proper order of steps in the reassembly process.

To sum up, this lab helped us understand the computer disassembly process and gave us the confidence to rebuild a computer system. Together with the quiz, the practical knowledge acquired offered a thorough education in PC assembly.

Pictures taken in the lab

