**HANOI UNIVERSITY**
**Faculty of Information Technology**

# 61FIT2PCO
# Principles of Computing

# MIDTERM PROJECT

## Start: 20-10
## End: 30-10

This midterm project is for Tutorial class B01 and B02 only (Ms Duong's tutorial classes).

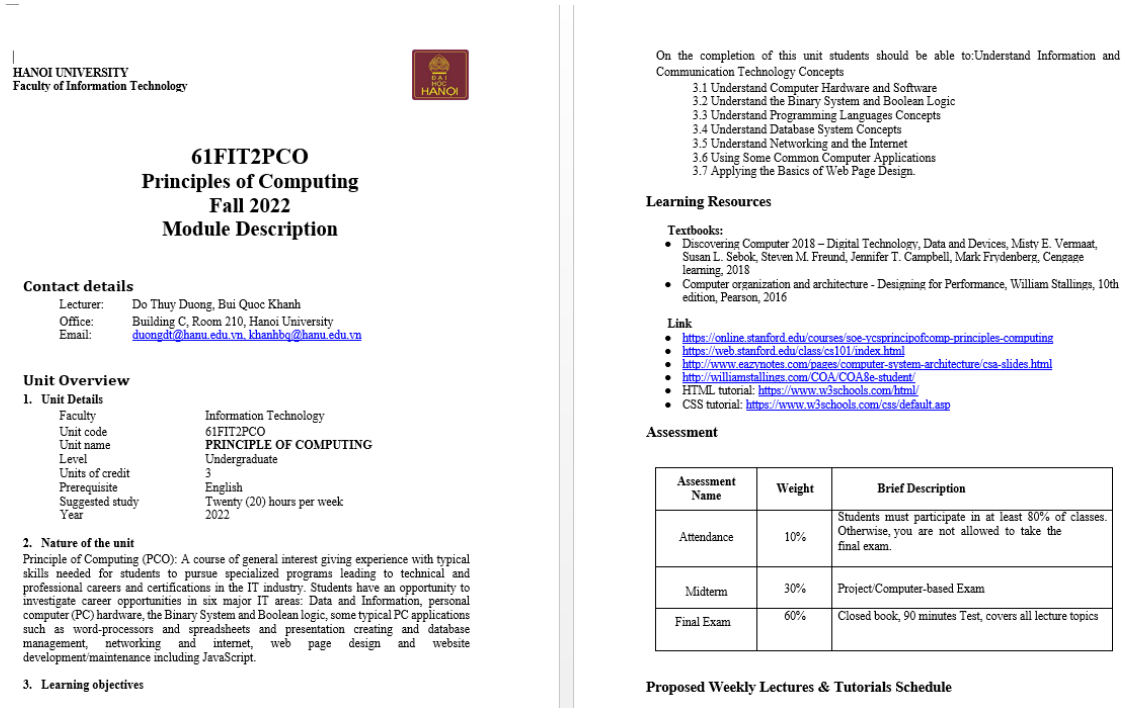
Students form a group of 4-5 students (members in the same tutorial class) to do the project. Please register your group via this link:

PCO Fall 2022_Midterm Project_Groups - Google Sheets

Students need to design a PCO course website. It has a menu in which all items are linked to corresponding webpages and the content of each webpage is the same as the Module Description in Figure 1 (there are links, tables, images…). The menu consists of the following items:

- Contact details (Add a form so that students can write questions and send to teachers)
- Unit Overview
- Learning resources
- Assessment
- Weekly schedule
- Announcements
- Student list

(Refer to the PCO Module Description on the course webpage: https://lms.fit.hanu.vn/mod/resource/view.php?id=1802)



HANOI UNIVERSITY
Faculty of Information Technology

**61FIT2PCO**
**Principles of Computing**
**Fall 2022**
**Module Description**

**Contact details**

Lecturer: Do Thuy Duong, Bui Quoc Khanh
Office: Building C, Room 210, Hanoi University
Email: duongdt@hanu.edu.vn, khanhbq@hanu.edu.vn

**Unit Overview**

**1. Unit Details**

| | |
|---|---|
| Faculty | Information Technology |
| Unit code | 61FIT2PCO |
| Unit name | **PRINCIPLE OF COMPUTING** |
| Level | Undergraduate |
| Units of credit | 3 |
| Prerequisite | English |
| Suggested study | Twenty (20) hours per week |
| Year | 2022 |

**2. Nature of the unit**

Principle of Computing (PCO): A course of general interest giving experience with typical skills needed for students to pursue specialized programs leading to technical and professional careers and certifications in the IT industry. Students have an opportunity to investigate career opportunities in six major IT areas: Data and Information, personal computer (PC) hardware, the Binary System and Boolean logic, some typical PC applications such as word-processors and spreadsheets and presentation creating and database management, networking and internet, web page design and website development/maintenance including JavaScript.

**3. Learning objectives**

On the completion of this unit students should be able to:Understand Information and Communication Technology Concepts

3.1 Understand Computer Hardware and Software
3.2 Understand the Binary System and Boolean Logic
3.3 Understand Programming Languages Concepts
3.4 Understand Database System Concepts
3.5 Understand Networking and the Internet
3.6 Using Some Common Computer Applications
3.7 Applying the Basics of Web Page Design.

**Learning Resources**

**Textbooks:**

- Discovering Computer 2018 – Digital Technology, Data and Devices, Misty E. Vermaat, Susan L. Sebok, Steven M. Freund, Jennifer T. Campbell, Mark Frydenberg, Cengage learning, 2018
- Computer organization and architecture - Designing for Performance, William Stallings, 10th edition, Pearson, 2016

**Link**

- https://online.stanford.edu/courses/soe-ycsprincipofcomp-principles-computing
- https://web.stanford.edu/class/cs101/index.html
- http://www.eazynotes.com/pages/computer-system-architecture/csa-slides.html
- http://williamstallings.com/COA/COA8e-student/
- HTML tutorial: https://www.w3schools.com/html/
- CSS tutorial: https://www.w3schools.com/css/default.asp

**Assessment**

| Assessment Name | Weight | Brief Description |
|---|---|---|
| Attendance | 10% | Students must participate in at least 80% of classes. Otherwise, you are not allowed to take the final exam. |
| Midterm | 30% | Project/Computer-based Exam |
| Final Exam | 60% | Closed book, 90 minutes Test, covers all lecture topics |

**Proposed Weekly Lectures & Tutorials Schedule**

*Fig. 1: PCO Module Description*