Hashemite University<br>College of Engineering Department of Mechatronics Microprocessor and Microcontroller 110405424<br>(3 Credit Hours)

| Instructor |
| :--- |
| Name |
| Email: |
| Office: |
| Office hours: |
| Course |
| Course Number: |
| Prerequisite: |

## References:

1. Microchip Pic18EXX2
2. Brey B.B, "The Intel Microprocessors $8086 / 8088$, $80186 / 80188$, 80286, 80486, Pentium and Pentium Pro, Processor Architecture, Programming and Interface", 5th Edition, Prentice-Hall, Inc.
3. Miller G.H, "Microcomputer Engineering", 2nd Edition, Prentice-Hall, Inc

Major Topics Covered and Schedule in Weeks:
Topic

1. The PIC Microcontrollers: History and Features
2. PIC Architecture \& Assembly Language Programming
3. Branch, Call, and Time Delay Loop
4. PIC I/O Port Programming
5. Arithmetic, Logic Instructions, and Programs
6. Bank Switching, Table Processing, Macros, and Modules
7. PIC Programming in C
Total
