IZMIR INSTITUTE OF TECHNOLOGY
CIVIL ENGINEERING DEPARTMENT

CE 240 – BASIC COMPUTER PROGRAMMING
SYLLABUS
SPRING 2026

Class & Lab Meeting Time(s): Monday & Friday 9:45-11:30 – Computer Lab C111

Location: C111 – Computer Lab

Instructors: Asst. Prof. Dr. Tolga ERCAN – Email: tolgaercan@iyte.edu.tr Office: E-202
Res. Asst. Mustafa Ergin – Email: mustafaergin@iyte.edu.tr Office: E-107
Res. Asst. Mehmet Atay – Email: mehmetatay@iyte.edu.tr

Office Hours: By appointment only

Description: The objective of the course is to provide first knowledge and basic skill of programming. Introduction to programming concepts, using constants, variables, expressions, and statements. Simple data structures and arrays. Functions and modular programming. **Python** programming language practices will be utilized.

Textbook(s) & References:

- Automate the Boring Stuff with Python – Practical Programming for Total Beginners, Al Sweigart, 2nd Edition, No Starch Press.
- Introduction to Programming Concepts with Case Studies in Python, Göktürk Üçoluk and Sinan Kalkan, Springer
- Introduction to Programming Using Python, Y. Daniel Liang, Pearson
- https://www.python.org/
- https://www.youtube.com/

Learning Outcomes:

- Knowledge and the skills to design, develop and apply algorithms and data structures to solve the basic problems,
- Know the logic of computer operating systems, the basic set of system commands,
- Apply general problem-solving strategies to the development of computer algorithms,
- Write computer programs to express and implement algorithms to solve problems,
- Introduction level of understanding and operating skills in high-level computer programming language Python.

Grading Policy:

- Midterm Exam – 1: **%25** of the grade
- Midterm Exam – 2: **%25** of the grade
- Class Project: **%10** of the grade
- Final Exam: **%30** of the grade
- Class and Lab Participation: After each lab practice, students are expected to send their practice code to the instructors for attendance and participation grade.
    - Lab Participations will be graded as **10%** of the grade.

Overview of the Semester's Lecture and Lab Practices Plan

Date	Week	Lecture Content & Lab Content
23/2/2026 – 27/2/2026	Week 1	Introduction to Computer Programming (Ch 1) & Installing Python
2/3/2026 – 6/3/2026	Week 2	Input, Processing, and Output (Ch 2) & Input, Processing, and Output (Ch 2) cont.
9/3/2026 – 13/3/2026	Week 3	Input, Processing, and Output (Ch 2) cont. & Writing and Testing Simple Code and Syntax Practices
16/3/2026 – **20/3/2026**	Week 4	Decision Structures and Boolean Logic (Ch 3) & **NO Class on 20/3/2026**
23/3/2026 – 27/3/2026	Week 5	Decision Structures and Boolean Logic (Ch 3) & Decision Syntax (if-statement)
30/3/2026 – 3/4/2026	Week 6	Repetition Structures (Ch 4) Loop and Decision Syntax Development Practices
6/4/2026 – 10/4/2026	Week 7	Repetition Structures (Ch 4) Repetition Structures Practices
13/4/2026 – **17/4/2026**	Week 8	Repetition Structures (Ch 4) & **Exam Review** **Mid-term Exam-1 (17/4/2026)**
20/4/2026 – 24/4/2026	Week 9	Functions (Ch 5) & Functions Practices
27/4/2026 – **1/5/2026**	Week 10	Functions (Ch 5) **NO Class on 1st of May 2026**
4/5/2026 – 8/5/2026	Week 11	Files and Exceptions (Ch 6) & Function Practices & Files and Exceptions Practices
11/5/2026 – **15/5/2026**	Week 12	Lists and Tuples (Ch 7) & **NO Class on 15/5/2026 for Spring Break**
18/5/2026 – 22/5/2026	Week 13	Lists and Tuples (Ch 7) & Data: List and Tuples Practices
25/5/2026 – **29/5/2026**	Week 14	Lists and Tuples (Ch 7) and Practices **NO Class on 29th May 2026**
1/6/2026 – **5/6/2026**	Week 15	List and Tuples – Graphics in Python & **Exam Review** **Mid-term Exam-2 (5/6/2026)**
8/6/2026 – 12/6/2026	Week 16	Graphics in Python & Dictionaries (Ch 8) Dictionaries – Graphical Practice & Solutions
15/6/2026	Week 17	Class Recap & Practice & Solutions
17/6/2026 – 30/6/2026	**Final Exams**	**Final Exams Weeks**