Course Syllabus (v2)

1. Course Code   COMP101
2. Credits   10 (2 + 2 + 6) (LECT + LAB + SELF)
3. Course Name   Introduction to Computer Programming (Python)
4. Year   1/2023
5. Duration   12 weeks
6. Instructors   -, -, -
7. Prerequisites   Basic Mathematics (ANY)
8. Hours per week   in-class 3 – 4 hours per week, self-study 6 hours per week
9. Contents

    Computer system components and interactions, memory and disk accesses, data types and basic structures, operations, statements, expressions, control structures, data aggregation, IDEs, programming tools, coding styles and conventions, program development, basic algorithms, high-level programming language problem solving, software debugging, mathematical libraries usages.

10. Level   -
11. Weekly contents

Week No.	Content	Assignments
1	Introduction, I/O, Data Types, Variables, Operators, Expressions, IDEs, Git	In-class, Out-of-class
2	Basic String, List and String, List Operations	In-class, Out-of-class
3	Selection statement: if-elif-else statement	In-class, Out-of-class
4	Repetition (loop): for, while, break, continue + Nested loop	In-class, Out-of-class
5	More String, List Methods, List Processing	In-class, Out-of-class
6	Functions	In-class, Out-of-class
7	Strings and Files	In-class, Out-of-class
8	Tuple/Set/Dictionary	In-class, Out-of-class
9	Classes and Objects	In-class, Out-of-class, Mini Projects