



Python Programming

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Outline

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Course Overview

- Course Objectives and Goals
 - Master Python programming fundamentals.
 - Build real-world applications.
- What You'll Learn:
 - Python syntax and core concepts.
 - Data science with Python libraries.
 - Web development with Python frameworks.
- Course duration and hours:
 - 11.09.2023 – 29.10.2023
 - Monday: 16:20 – 20:00, room 4214 and [online](#)
 - Thursday: 10:50 – 12:40, room 4211 and [online](#)

Grading Criteria

1. Homework and Assignments (30%)

- Completion: Did you submit all assignments on time?
- Correctness: Were the solutions accurate and functional?
- Code Quality: Did you follow best practices in coding and documentation?

2. Midterm Exam (20%)

- Mastery of Core Concepts: Did you demonstrate a solid understanding of Python fundamentals?
- Problem Solving: Could you apply Python to solve complex problems?

3. Final Project (50%)

- Creativity: Did the project demonstrate creativity and innovation?
- Documentation: Was the project well-documented and easy to understand?

Grading Criteria

4 . Extra Credit

- Outstanding contributions to the class community, such as assisting peers or sharing valuable resources.
- Regular Attendance & punctuality

5. Penalty

- Penalty for unethical behavior, such as dishonesty.
- Late submission:
 - Minus 10% of your score per late day.

Syllabus

- Syllabus:
 - Lectures and Lab activities
 - Official syllabus will be provided by next Monday.
- Topics Covered:
 1. Python basic: syntax, data structures, read write files, etc.
 2. Data Science with Python: numpy, pandas, matplotlib, scikit-learn, etc.
 3. Web Development: Flask

Teaching Style

- Lecture vs. Hands-on Exercises:
 - Mix of interactive lectures and hands-on coding.
- Emphasis on Practice and Experimentation:
 - Learn by doing; coding assignments reinforce concepts.

Placement Quiz

- 30 MCQ covers a wide range of Python topics, [link](#).
- You have to finish them in class.
- The results will not be counted towards your GPA.