Object Oriented Programming
Spring 2024

Course: YZ 102

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Course Description:

This course introduces object-oriented programming (OOP) principles and practices using Java. Students will learn key concepts of OOP, including encapsulation, inheritance, polymorphism, and abstraction, and gain hands-on experience in applying these concepts to design and implement Java-based applications.

Course Objectives:

- Understand the principles and concepts of Object-Oriented Programming (OOP)
- Gain proficiency in designing and implementing Java classes and objects
- Learn to apply inheritance, polymorphism, encapsulation, and abstraction in Java programs
- Apply OOP principles to solve real-world programming problems

Textbook:

Deitel & Deitel, "Java How to Program Early Objects", Eleventh Edition.

Software:

Netbeans, SQLite, Dbeaver

Online Tutorials:

Oracle Java Tutorials: **https://docs.oracle.com/javase/tutorial/java/concepts/index.html**
JavaTpoint for SQLite: **https://www.javatpoint.com/java-sqlite**

COURSE TIMELINE (Tentative)

Week	Topics, Assignments
1	Syllabus, Introduction, Assigning Projects
2	Introduction to Classes, Objects, and Methods
3	Methods: A Deeper Look
4	Classes and Objects: A Deeper Look
5	Arrays and Array List
6	OOP: Inheritance
7	OOP: Polymorphism and Interfaces
8	**MIDTERM**
9	SQLite, Project Mid-Submission
10	Accessing Databases
11	Exception Handling: A Deeper Look,
12	Files, Input/Output Streams, NIO, XML Serialization
13	Project Presentations
14	**FINALS**

Disclaimer*: The instructor has the right to modify the policies in this document.*

Grades:

	Repetition	Points
Midterm	1	20
Project	1	20
Final	1	60

Overall performance of the exams, assignments, and quizzes will determine your final letter grade.

Final Exam Score:
Any student with a final grade below 50 will fail the course.

Plagiarism Warning:

Plagiarism is a serious academic offense and will not be tolerated. All assignments and projects must be the original work of the student submitting them. Any instances of plagiarism, including but not limited to copying code from online sources without attribution or submitting work completed by others, will result in disciplinary action.