

The slide features a blue background with white wavy lines. There are three blue spheres: a large one on the left and two smaller ones on the right. Faint binary code is visible in the background.

Module 0: About this course

Prof. Tran Minh Triet

Objectives

- ❖ to **introduce** students to object-oriented programming.
- ❖ to **experience** object oriented design and programming.

... Do you expect more?

Minor objectives

- ❖ to “*feel*” how to organize a software and reuse components and patterns

Instructor and Teaching Assistants

❖ Instructor:

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❖ Teaching Assistants:

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Exams and Marking

- ❖ Lab assignments
- ❖ Mid-term exam
 - Lab exam
- ❖ Final exam
 - Lab exam / Final project
 - Writing
- ❖ Plagiarism found ==> 0 (zero)

Tentative schedule

- ❖ **Module 1:** Introduction of Object-Oriented Programming
- ❖ **Module 2:** Class and object concepts and declaration
- ❖ **Module 3:** Constructor and Destructor
- ❖ **Module 4:** Operators
- ❖ **Module 5:** Inheritance
- ❖ **Module 6:** Polymorphism
- ❖ **Module 7:** Relationships between classes
- ❖ **Module 8:** Design Patterns

References

❖ Main Book:

- *C++ Primer, 5th Edition*, Stanley B. Lippman, Josée Lajoie, Barbara E. Moo

❖ Further readings:

- *Effective C++*, Scott Meyers
- *Effective and More Effective C++*, Scott Meyers
- *The C++ Programming Language*, Bjarne Stroustrup