



# CS202: Programming Systems

## Module 0: About this course

**Dr. Tran Minh Triet**

# Objectives

- ❖ to **prepare** students for programming in the upper division 3xx and 4xx level classes.
- ❖ 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
- ❖ to **introduce** students to GUI programming

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# Instructor and Teaching Assistants

## ❖ Instruction:

- Dr. Tran Minh Triet  
[tmtriet@fit.hcmus.edu.vn](mailto:tmtriet@fit.hcmus.edu.vn) Room I. 82

## ❖ Teaching Assistants:

- MSc. Dang Binh Phuong  
[dbphuong@fit.hcmus.edu.vn](mailto:dbphuong@fit.hcmus.edu.vn) Room I. 63
- Dang Thi Thanh Nguyen  
[dttnnguyen@fit.hcmus.edu.vn](mailto:dttnnguyen@fit.hcmus.edu.vn) Room I. 82
- Nguyen Huy Khanh  
[nhkhanh@fit.hcmus.edu.vn](mailto:nhkhanh@fit.hcmus.edu.vn) Room I. 82
- Nguyen Son Hoang Quoc  
[nshquoc@fit.hcmus.edu.vn](mailto:nshquoc@fit.hcmus.edu.vn) Room I. 82

# Exams and Marking

❖ <b>Assignments:</b>	40%
▪ Weekly assignments:	10%
▪ Final lab assignment:	30%
❖ <b>Mid-term exam :</b>	25%
❖ <b>Final exam:</b>	35%
❖ <b>Bonus</b> (advanced Modules, seminars...): +10→20%	

# Tentative schedule

- ❖ **Module 1:** Introduction of Object-Oriented Programming
- ❖ **Module 2:** Class and object concepts and declaration
- ❖ **Module 3:** Class and object concepts and declaration (cont.)
- ❖ **Module 4:** Constructor and Destructor
- ❖ **Module 5:** Operators
- ❖ **Midterm Examination** ☹️

# Tentative schedule (cont.)

- ❖ Module 6: Inheritance
- ❖ Module 7: Polymorphism
- ❖ Module 8: Relationships between classes
- ❖ Module 9: Design Patterns
- ❖ Module 10: Review for the final
- ❖ **Final Examination !!!**

# References

## ❖ Main Book:

- C++ Primer, Fourth Edition,  
Stanley B. Lippman, Josée Lajoie, Barbara E. Moo  
Addison Wesley Professional, 2005

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# References

## ❖ Slides

- Course CS202: Programming Systems  
Instructor: MSc. Karla Fant,  
Portland State University
- Course CS202: Programming Systems  
Instructor: Dr. Dinh Ba Tien,  
University of Science, VNU-HCMC
- Course DEV275: Essentials of Visual Modeling with  
UML 2.0  
IBM Software Group

# References

## ❖ Further readings:

- Effective C++, 3<sup>rd</sup> Edition,  
Scott Meyers, Addison-Wesley Professional, 2005
- The C++ Programming Language  
Bjarne Stroustrup, Addison-Wesley, 2000.

## ❖ Technical references (GUI programming with C++)

- Ivor Horton's Beginning Visual C++ 2005  
Ivor Horton, Wiley Publishing, Inc., 2006
- Ivor Horton's Beginning Visual C++ 2008  
Ivor Horton, Wiley Publishing, Inc., 2008