

Programming Fundamentals

Course Introduction

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Lecturer's Information

- Name: Le The Anh
- Email: theanhvmu@phystech.edu
- Highest achieved education: Ph.D. in Computer Science - Moscow Institute of Physics and Technology
- Research area: Deep Learning, Natural Language Processing
- Hometown: Thai Binh
- Hobbies: Bullet Chess, Badminton, Travelling

Course Introduction

- Course code and name: PRF192 - Programming Fundamentals
- Time allocation
 - Class hours: 30 x 1.5 hour slots (15 lecture slots + 15 tutorial slots)
 - Home study: 60 slots
- Course description:
 - Understand basics of information theory, computer system and methods of software development, focus on function-oriented programming design, coding, testing and discipline in programming
 - Explain basic concepts of programming, function-oriented programming design, modularity, understand and code programs using C
- Student's tasks:
 - Attend more than 80% of contact sessions in order to be accepted to the final examination
 - **!!! Attendance confirmation: within 48 hours**
 - Complete all assigned exercises given by instructor in class or at home and submit on time

Course Introduction

- Assessment scheme
 - Ongoing assessment
 - 2 progress tests (10%)
 - 8 workshops (10%)
 - 1 assignment (10%)
 - 1 practical exam (PE) (40%)
 - Final exam (FE) (30%)
 - Final result = Ongoing assessment score + FE
- Completion criteria
 - Every ongoing assessment component > 0
 - FE score ≥ 4 & Final result ≥ 5
 - Any instance of cheating or plagiarism will result in failing this course.
- Check out <https://flm.fpt.edu.vn> for detailed course schedule and assessment structures

Course Introduction

- Books/resources:
 - Foundations of Programming Using C, Evan Weaver, 2003, printed by FPT University in 2007 (hardcopy)
 - BTP100: <http://cs.senecac.on.ca/~btp100/pages/welco.html> (online course website or in FU intranet): Readings, workshops, assignments, hand-outs, practices
 - FU Presentation Powerpoints (.zip)
 - FU CMS at <http://cms.hn.fpt.edu.vn>
- Tools
 - Windows: [DevC++ 4.9.9.2](#) (official IDE for this course)
 - MacOS & Linux: Kite (AI powered code completions), Atom, Sublime Text
 - Online IDE: <https://www.onlinegdb.com>
 - My choice: Vim
- Course group
 - Facebook: TBA
 - Github: <https://github.com/theanhle/c-programming>

Enjoy the course!

DevC++ Installization

- For MacOS, install VirtualBox first
- <https://sourceforge.net/projects/dev-cpp/>
- Install DevC++
- Write and run the first program

Q&A