

Programming Fundamentals

Course Introduction

Le The Anh

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FPT UNIVERSITY

Lecturer's Information

- Name: Le The Anh
- Education: Ph.D. in CS - Moscow Institute of Physics and Technology
- Current works:
 - Head of IT Department @ FPT University, Can Tho, Viet Nam
 - NLP Group Leader @ Cyber Intellect, Moscow, Russia
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- Research of interests: Deep Learning, Natural Language Processing
- Hometown: Thai Binh
- Hobbies: Bullet Chess, Badminton

Course Description

- Course code and name: PRF192 - Programming Fundamentals
- Study hours (150h) = 45h contact hours + 1h final exam + 104h self-study
- 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 at least 80% of contact sessions in order to be accepted to the final examination
 - Complete all assigned exercises given by instructor in class or at home and submit on time

Course Plan

- ➊ Introduction to PFC
- ➋ Basic Computation
- ➌ Basic Logics
- ➍ Modules and Functions
- ➎ Pointers
- ➏ Libraries
- ➐ Contiguous Storage
- ➑ Strings
- ➒ Text Files

Assessment Scheme

Category	Part	Weight (%)	Completion criteria
Progress test	2	10	> 0
Assignment	1	10	> 0
Workshop	5	10	> 0
Practical exam	1	40	> 0
Final exam	1	30	4

Table 1: Assessment scheme

- Check out <https://flm.fpt.edu.vn> for detailed course schedule and assessment structures
- Any cheating, plagiarism, breach of copyright will be heavily penalized!

Resources and Tools

- Books/resources:
 - FU PRF192 slides on <http://flm.fpt.edu.vn>
 - Foundations of Programming Using C, Evan Weaver, 2003
 - BTP100
 - FUCT LMS
 - C Programming Tutorial for Beginners
 - <https://www.programiz.com/c-programming>
- Tools
 - Windows: DevC++ 4.9.9.2
 - CodeBlock
 - [CodeBlock 17.12 setup file](#)
 - [Debugging in CodeBlock](#)
 - MacOS & Linux: Kite (AI-powered code completions), Atom, Vim
 - Online IDE: <https://www.onlinegdb.com>
- Course group: Zalo / FB group (TBA)

Enjoy the course!