TKU211131P

Fundamentals of Programming Lab. Work

Praktikum Pemrograman Dasar

BASIC INFORMATION

Course Credit 1 / 150 minutes per Week

Course Type Required

Course Classification Engineering Topics

Prerequisites Fundamentals of Programming

STUDENT AND LEARNING OUTCOMES

Covered Student Outcomes

Development of Engineering Solution (KP.2) Modern Tools Utilization (SK.1)

Data and Experiments (KP.4)

Learning Outcomes

LO1 Students are able to implement and analyze the use of various data types and operators in C++.

- **LO2** Students are able to apply and analyze the concept of programming control statements.
- **LO3** Students are able to apply and analyze the concept of modularity and data communication among module and/or functions in C++.
- **LO4** Students are able to use and analyze arrays, structures, and unions and dynamic data types in programming.

COURSE DESCRIPTION

This course aims to improve student's technical and analytical skill in implementing basic programming concept.

TOPICS

- 1. Introduction to GCC
- 2. Operator and Data Types
- 3. Selection Structure
- 4. Repetition Structure
- 5. Pointer & Array
- 6. I/O Function
- 7. Modular programming
- 8. Final projects

REFERENCES

- [1] Programming Principle and Practice Using C++ 2nd Ed. (Bjarne Stroustrup)
- [2] The C++ Programming Language 4th Ed. (Bjarne Stroustrup)