TKU211121P

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)