

2.3.3 Programming 2

Programming 2

Module Summary

Module code: EEIB330

Module coordinator: Prof. Dr. Thorsten Leize

Credits (ECTS): 6 Points

Semester: 3. Semester

Pre-requisites with regard to content: Module "Programming 1"

Pre-requisites according to the examination regulations: Regarding to the examination regulations no pre-requisites are required

Competencies:

The students are able to design and implement object oriented programs. They understand the object oriented way of thinking and get the differences of the various programming paradigms. They can also document the software using simple UML diagrams. They know how to use different data storage approaches and understand the differences between them.

Assessment:

The module is assessed by a written exam of 90 minutes. Students have to pass furthermore the lab and project by submission and acceptance of exercises.

Usability:

All electrical engineers need programming skills in their career. The modules Programming 1 & 2 are the base for this.

Course: Object Oriented Programming

Module code: EEIB331

Lecturer: Prof. Dr. Thorsten Leize

Scope of weekly semester hours (SWS): 2

Semester of delivery: Winter semester

Type/mode: Lecture with integrated excercise, Compulsory subject

Language of instruction: English

Content:

- The object oriented programming paradigm
- classes, methods, inheritance, operator overloading, polymorphy, UML
- Introduction to modern concepts of C++ from new standard versions 11,14 and 20.

Recommended reading:



• See Ilias

Course: OOP Lab

Module code: EEIB332

Lecturer: Prof. Dr. Thorsten Leize

Scope of weekly semester hours (SWS): 2

Semester of delivery: Winter semester

Type/mode: Labor, Compulsory subject

Language of instruction: English

Content:

- Object oriented software, design and implementation
- Exercises to EEIB331

Recommended reading:

See Ilias

Course: OOP Project

Module code: EEIB333

Lecturer: Prof. Dr. Thorsten Leize

Scope of weekly semester hours (SWS): 2

Semester of delivery: Winter semester

Type/mode: Projekt, Compulsory subject

Language of instruction: English

Content:

• Small project to be done to the topics of EEIB331

Recommended reading:

• See EEIB331 und 332