

Course

ESP - Embedded system project

Version: 1 | Last Change: 02.08.2019 19:20 | Draft: 0 | Status: vom verantwortlichen Dozent freigegeben

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General information

Long name	Embedded system project
Approving CModule	ESP_BaTIN
Responsible	Prof. Dr. Tobias Krawutschke Professor Fakultät IME
Level	Bachelor
Semester in the year	summer semester
Duration	Semester
Hours in self-study	114
ECTS	5
Professors	Prof. Dr. Tobias Krawutschke Professor Fakultät IME
Requirements	Course Embedded Systems
Language	German, English if necessary
Separate final exam	No

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Project

Learning goals

ES Development
Hardware Selection
Device selection
Understanding device descriptions (manuals)
Application of modelling methods
Generation of a system model
Refinement of system components
Modelling behavior
Implementation
Design of special components
Integration of devices
Development of tests, testing
Building a prototype using mechanical/electrical parts

Handling of complex tasks with a team
Project planning
Contract fulfilling in time
Presentation
System design
Intermediate work report
Result presentation

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Project	2
Tutorial (voluntary)	0

Separate exam

Exam Type

working on projects assignment with your team e.g. in a lab)

Details

Grading of the project in several parts

- 1) The student teams present and defend their results reached during the phases analysis, technical conception, implementation of prototype in scheduled meetings to show their competencies in planning, development and integration of technical systems.
- 2) The teams write a documentation using a predefined form. With presentations and the report, they show their competencies to interact with clients (either external stake holders or role of the docent), appliers, social environment and team members.
- 3) The students individually undergo a colloquium that shows their ability to analyze and evaluate requirements, concepts and system implementations.

Minimum standard

Team: Delivery of work results in time, presentation of results or obstacles if result couldn't reached, written report according to the form
Individual: Valuable participation in the team's work, understanding the system, its modelling, design, implementation and its behavior

