

## Course

# ARP - Alternative Computer Architectures and Programming Languages

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## ^ General information

<b>Long name</b>	Alternative Computer Architectures and Programming Languages
<b>Approving CModule</b>	<u>ARP_MaTIN</u>
<b>Responsible</b>	Prof. Dr. René Würzberger Professor Fakultät IME
<b>Level</b>	Master
<b>Semester in the year</b>	winter semester
<b>Duration</b>	Semester
<b>Hours in self-study</b>	96
<b>ECTS</b>	5
<b>Professors</b>	Prof. Dr. Georg Hartung Professor Fakultät IME im Ruhestand
<b>Requirements</b>	<ul style="list-style-type: none"><li>- Experience in imperative programming languages, esp. C</li><li>- Basic knowledge and experience in operating systems, esp. Linux</li><li>- Basic knowledge and experience in software engineering</li><li>- Basic knowledge of computer design and operation, including operation of important digital components</li><li>- Basic knowledge of formal languages and automata theory</li></ul>
<b>Language</b>	German
<b>Separate final exam</b>	Yes

## Final exam

### Details

Assessment of mini-projects, oral exam

### Minimum standard

Achievement of the minimum goals in the mini-projects or 50% of the points in the final exam.

### Exam Type

Assessment of mini-projects, oral exam

## ^ Lecture / Exercises

### Learning goals

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#### Knowledge

Knowledge of the respective modeling method, programming procedure or architecture and its programming ("Topics"); practice of initial Topic skills in exercises.

### Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	0
Exercises (shared course)	0
Tutorial (voluntary)	0

### Separate exam

none

## ^ Project

### Learning goals

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#### Skills

Application of the topic to a self-selected task, analysis of the features of the topic on a concrete example, synthesis with own experiences, teamwork (processing in a small group)

## Expenditure classroom teaching

Type	Attendance (h/Wk.)
Project	1
Tutorial (voluntary)	0

## Separate exam

### Exam Type

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

### Details

Evaluation of the mini-projects

### Minimum standard

50%