

Course Manual ARP

Alternative Computer Architectures and Programming Languages

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– General information

Long name	Alternative Computer Architectures and Programming Languages
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Approving CModule	ARP MaTIN
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Responsible	Prof. Dr. René Würzberger Professor Fakultät IME
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Valid from	winter semester 2022/23
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Level	Master
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Semester in the year	winter semester
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Duration	Semester
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Hours in self-study	96
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ECTS	5
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Professors	Prof. Dr. Georg Hartung Professor Fakultät IME im Ruhestand
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Literature

Final exam

Details	Assessment of mini-projects, oral exam
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Minimum standard	Achievement of the minimum goals in the mini-projects or 50% of the points in the final exam.
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Exam Type	EN andere summarische Prüfungsform
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Requirements

- Experience in imperative programming languages, esp. C
- Basic knowledge and experience in operating systems, esp. Linux
- Basic knowledge and experience in software engineering
- Basic knowledge of computer design and operation, including operation of important digital components
- Basic knowledge of formal languages and automata theory

Language

German

Separate final exam

Yes

– Lecture / Exercises

Learning goals

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

Special requirements

none

Accompanying material	Slides, references, internet sources (mentioned in lecture).
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Separate exam	No
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Expenditure classroom teaching

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

– Lecture / Exercises

Learning goals

Goal type	Description
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

Special requirements

none

Accompanying material	Proposals for mini-projects, accompaniment in Ilias exercise
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Separate exam	Yes
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Separate exam

Exam Type	EN Projektaufgabe im Team bearbeiten (z.B. im Praktikum)
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Details	Evaluation of the mini-projects
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Minimum standard	50%
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