

DM820

Advanced Topics in Programming Languages

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Course Organization

Prerequisites	Programming Languages (DM509)
Form	Elective Course
Credits	5 ECTS
Evaluation	a) student presentation (passed/fail) b) project (grades, external censor)
Textbook	none (articles, tutorials, notes)
Lecturer	Peter Schneider-Kamp

Topics

- **past topics:**
 - Aspect-Oriented Programming
 - Web Service Programming
 - Introspection and Metaprogramming
 - Higher-Level Database Programming
 - Program Verification by Contract
 - Efficiency Comparisons of Collection Classes
 - Distributed Programming Languages
 - Parallel Programming in Functional Languages
 - Inductive Program Verification
 - Design Patterns for Graphical User Interfaces
 - ...

Topics

- possible future topics:
 - Scripting Language Embedding
 - Domain Specific Programming Languages
 - Web Ontology Languages
 - Semantic Web Query Languages
 - Parallelizing Compilers
 - Functional Logic Programming Languages
 - Automated Complexity Analysis
 - Eclipse Plugin for New Language
 - REALLY Obscure Programming Languages ;)
 - ...
- nearly anything goes!



Enjoy your Pizza!