



# Introduction for Master Students (ESE)

Institute Introduction | Thomas Thüm | October 7, 2021



Software Engineering  
Programming Languages



ulm university universität  
**uulm**

# Institute of Software Engineering and Programming Languages

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# Institute of Software Engineering and Programming Languages

## Software Engineering

How to develop and operate software?

### Research Areas

- Software Configuration
- Software Evolution
- Developer Experience
- Quality Assurance

## Programming Languages

How to communicate with machines?

### Research Areas

- Domain-Specific Languages
- Declarative and Functional Programming Languages

# Bachelor Courses of Our Institute

Key	✓ Lecture	✓ (Pro-)Seminar	✓ Project	✓ Thesis	
Lecturer	✓ Tichy	✓ Frühwirth	✓ Thüm	✓ Raschke	✓ Juhnke    ✓ misc

	Winter Term	Summer Term	infrequent	always
Master & Bachelor	Functional Programming <small>RASCHKE</small>	Constraint Programming <small>FRÜHWIRTH</small>	Rule-based and Constraint Programming	
	Management of Software Projects <small>HOUBEK</small>			
	Rule-based and Constraint Programming <small>FRÜHWIRTH</small>			
	Web Engineering <small>TICHY</small>			
Bachelor	Software Engineering I+II <small>THÜM</small>		Research Trends in Software Engineering	Bachelor Thesis
	Software Project <small>THÜM</small>		Logic-based Programming Languages	
	Introduction to Computer Science	Programming Paradigms <small>RASCHKE</small>	Software Engineering	Anwendungsprojekt VMA
		Interactive Systems Programming <small>TICHY</small>	Anwendungsprojekt MDSD	

# Master Courses of Our Institute

Key	✓ Lecture	✓ (Pro-)Seminar	✓ Project	✓ Thesis	
Lecturer	✓ Tichy	✓ Frühwirth	✓ Thüm	✓ Raschke	✓ Juhnke    ✓ misc
	Winter Term	Summer Term	infrequent	always	
Master	Compiler Construction <small>THÜM</small>	Parallel Programming (in german) <small>RASCHKE</small>	Hot Software Engineering Topics in Research and Practice	Master Thesis	
	Empirische Forschungsmethoden der Informatik (in german) <small>JUHNKE</small>	Software-Produktlinien (in german) <small>THÜM</small>	Model-Driven Software Engineering <small>TICHY</small>	SE-Projekt A	
	Principles of Program Analysis <small>FRÜHWIRTH</small>		Software Quality Assurance <small>TICHY</small>	SE-Projekt B	
			Application of modern principles of software engineering in software development		
			Individual Project		
			Rule-based and Constraint Programming		
			Research Trends in Software Engineering		

# Current Courses of Our Institute

## Bachelor

- **Software Engineering I+II**  
(Softwaretechnik I+II)
- **Software Project** (Softwaregrundprojekt)
- **Proseminar on Logic-Based Programming Languages**  
(Logikbasierte Programmiersprachen)
- **Seminar on Rule-Based and Constraint Programming** (Regelbasierte und Constraint-Programmierung )
- **Numerous Projects**

## Master

- **Compiler Construction** (Compilerbau)
- **Empirical Research Methods in Computer Science** (Empirische Forschungsmethoden der Informatik)
- **Functional Programming** (Funktionale Programmierung)
- **Management of Software Projects** (Management von Softwareprojekten)
- **Hot Software Engineering Topics in Research and Practice** (Aktuelle Themen der Softwaretechnik aus Forschung und Praxis)
- **Web Engineering**
- **Rule-Based Programming** (Regelbasierte Programmierung)

# Quadrocopter Lab



# Warm Welcome in Ulm

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