

Computer Science

Sem.	Title	Course Type	Hours per week	ECTS Credits	Language
WS	Rich Client Programming - Plugging into the NetBeans Platform	Combined C.	1	1,5	E
WS	Functional Programming for Databases	Lecture	2	3	E
WS	Softwaredevelopment in C#	Combined C.	1	1,5	E
WS	Formal Verification	Seminar	2	3	E
WS	Model Checking	Tutorial	1	1,5	E
WS	Model Checking	Lecture	2	3	E
WS	Practical in Computer Science	Practical C.	5	7,5	E
WS	Artificial Intelligence	Lecture	2	3	E
WS	Systems Programming	Practical C.	2	3	E
WS	Adaptive Web-Based Systems	Lecture	1	1,5	E
WS	Bioinformatics	Lecture	2	3	E
WS	Bioinformatics	Tutorial	2	3	E
WS	Bioinformatics I: Sequence Analysis and Phylogenetics	Combined C.	4	6	E
WS	Seminar Bioinformatics	Seminar	2	3	E
WS	Project Bioinformatics	Practical C.	4	9	E
WS	Neural Networks for Bioinformatics	Combined C.	2	3	E
WS	Seminar Computational Biology	Seminar	2	3	E
WS	Accessible System Design	Combined C.	2	3	E
WS	Theoretical Concepts of Machine Learning	Lecture	2	3	E
WS	Theoretical Concepts of Machine Learning	Tutorial	1	1,5	E
WS	Project Practical	Practical C.	5	7,5	E
WS	Software Development II	Tutorial	2	3	E
WS	Capacity Planning	Combined C.	2	3	E
WS	Unconventional User Interaction	Lecture	2	3	E
WS	Unconventional User Interaction	Tutorial	1	1,5	E
WS	Practical in Computer Science	Practical C.	5	7	E
Theoretical Computer Science / Mathematics:					
WS	Algebraic Methods for Solving Nonlinear PDEs	Lecture	2	3	E
WS	Algorithmic Combinatorics I	Seminar	2	3	E
WS	Analytical Combinatorics	Lecture	2	3	E
WS	Analytical Combinatorics	Tutorial	1	1,5	E
WS	Automated Theorem Proving I	Lecture	2	3	E
WS	Automated Theorem Proving I (Theorema-Project)	Seminar	2	3	E
WS	Communication of Scientific Results	Lecture	2	3	E
WS	Computability and Complexity I	Seminar	2	3	E
WS	Computer Algebra	Combined C.	3	4,5	E
WS	Computer Algebra	Combined C.	2	3	E

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WS	Computer Algebra I	Seminar	2	3	E
WS	Formal Methods I	Seminar	2	3	E
WS	Homological Algebra	Lecture	2	3	E
WS	Information Systems	Combined C.	2	3	E
WS	Lecture Series Symbolic Computation	Lecture	1	1,5	E
WS	Logic Programming	Combined C.	2	3	E
WS	Mathematical Logic 1	Lecture	4	6	E
WS	Mathematical Logic 1	Tutorial	1	1,5	E
WS	Seminar (Selected Algorithms)	Seminar	2	3	E
WS	Symbolic Computation for Boundary Problems	Lecture	2	3	E
WS	Symbolic Summation I	Lecture	2	3	E
WS	Teaching Mathematics with Computer Algebra Systems	Combined C.	2	2,6	E
WS	Understanding and Creating Mathematical Proofs	Lecture	2	3	E
SS	Functional Programming	Combined C.	2	3	E
SS	Special Topics on Software Development	Combined C.	2	3	E
SS	Special Topics on Software Development	Combined C.	1	1,5	E
SS	Systems Theory 2	Combined C.	2	3	E
SS	Special Topics on Intelligent Systems	Combined C.	3	4,5	E
SS	Special Topics on Multimedia	Lecture	1	1,5	E
SS	Practical Training: Telemedia	Practical C.	2	3	E
SS	Telecooperation	Seminar	2	3	E
SS	Project Practical	Practical C.	10	15	E
SS	Special Topics on Multimedia	Tutorial	1	1,5	E
SS	Rewriting in Computer Science and Logic	Lecture	2	3	E
SS	Software Engineering	Combined C.	2	3	E
SS	Computer-Algebra II Summer 2007	Seminar	2	3	E
SS	Lecture Series Symbolic Computation	Lecture	1	1,5	E
SS	Logic and Software Design	Combined C.	2	3	E
SS	Computability and Complexity II	Seminar	2	3	E
SS	Special Functions II	Lecture	2	3	E
SS	Algorithmic combinatorics II	Seminar	2	3	E
SS	Automated Reasoning Systems	Lecture	2	3	E
SS	Automated Theorem Proving II (Theorema-Projekt)	Seminar	2	3	E
SS	Formal Methods II	Seminar	2	3	E
SS	Algorithmic combinatorics	Lecture	2	3	E
SS	Algorithmic combinatorics	Tutorial	1	1,5	E
SS	Programming in Mathematica	Combined C.	2	3	E
SS	Formal Integrability of Systems of Non-Linear PDEs - Involution and Janet Bases	Lecture	2	3	E
SS	Symbolic Linear Algebra	Lecture	2	3	E

WS = Winter Semester, SS = Summer Semester; E = English, G/E = in English if requested, otherwise in German

Sem.	Title	Course Type	Hours per week	ECTS Credits	Language
SS	Mathematics 1 (Analysis)	Tutorial	2	3	E
SS	Special Topics on Teleteaching/Telelearning (Intelligent Tutoring Systems and Building SCORM-Compatible Learning Materials)	Combined C.	1	1,5	E
SS	Special Topics on Teleteaching/Telelearning (Cooperative Learning in ICT Tools Supported Environment)	Combined C.	1	1,5	E
SS	Special Topics on Software Development (Introduction to Natural Language Processing)	Combined C.	1	1,5	E
SS	Special Topics on Software Development (Mathematical Modelling and Simulation of Biological Systems)	Combined C.	1	1,5	E
SS	System Software	Combined C.	2	3	E
SS	Engineering of Computer-Based Systems	Lecture	1	1,5	E
SS	Practical Training: Programming Language C++	Practical C.	2	3	E
SS	Practical Training on Programming Language C	Combined C.	2	1	E
SS	Bioinformatics II: Theoretical Bioinformatics and Machine Learning	Combined C.	4	6	E
SS	Bioinformatics III: Structural Bioinformatics and Gene Analysis	Combined C.	2	3	E
SS	Software Development II	Tutorial	2	3	E
SS	Project Practical	Practical C.	5	7,5	E