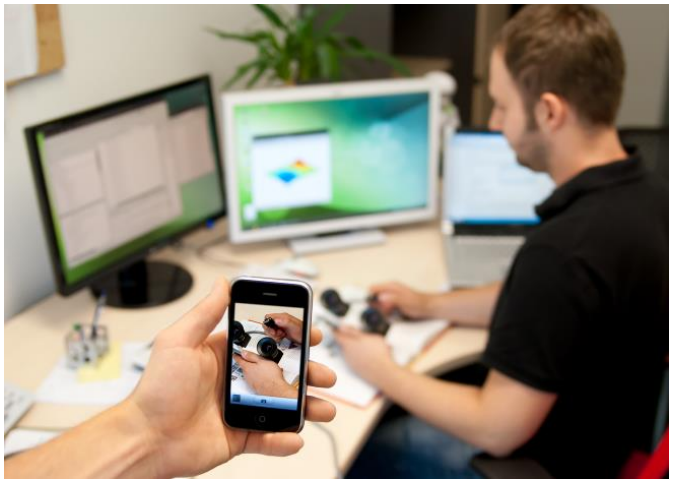


Welcome to the master's program in Computer Science!

Total expenditure

Sum of credits to be achieved: 120

Duration: 4 semester resp. 2 years

Degree: Master of Science (M.Sc.)

Start of courses

Winter term (October - March): 18. October 2021

Summer term (April - September): 25. April 2022

Language of instruction

Lectures and exercises are in English on demand otherwise in German.

Structure

The structure of the master program is based on the current recommendations of the German Society for Computer Science (GI). It is subdivided into four sections: A. Informatics, B. Projects, C. Languages and D. Master Thesis.

Registration

It is necessary that you register in advance for all courses and exams. Please see:

https://my.uni-bayreuth.de/cmlife/welcome

Section A: Informatics

To be achieved: 35 to 45 Credits

More information about all courses will be available online (https://elearning.uni-bayreuth.de). Please note that the courses start at quarter past.

Courses in winter term 2021/22

INF 212 Theoretical Computer Science II
(Theoretische Informatik II, 5 Credits)
Lecture: online, Prof. Martens
Exercises: To be announced, Prof. Martens

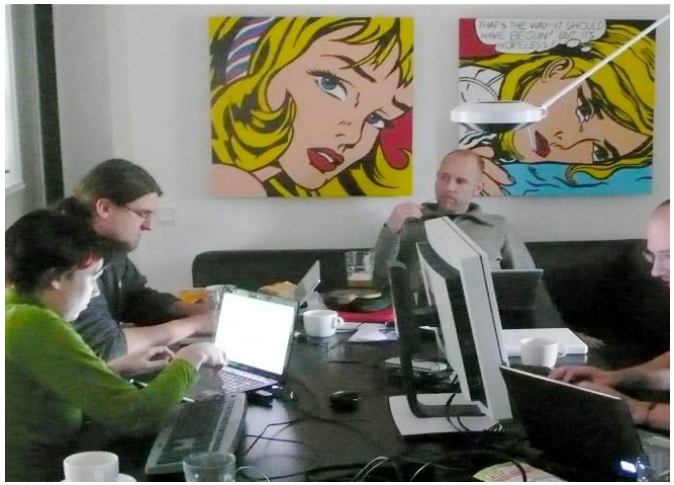
INF 217 Human-Computer-Interaction II
(Modul: Mensch-Computer-Interaktion II, 5 Credits)
Lecture: Wed, 10-12, INF-H33, Dr. Bachinski
Exercises: Thu 9-10,11-12, V. Paneva

INF 218 Programming, Data Analysis and Deep Learning in Python
(Programmieren und Datenanalyse in Python, 5 Credits)
Lecture: online, Prof. Müller
Exercises: online, Dr. Fleig

INF 307 Data Analysis I
(Modul: Data Analytics, 8 Credits)
Lecture: Tue, 8-10, INF-H34, Prof. Jablonski
Exercises: Thu, 15-16, INF-S112, Dr. Ackermann

INF 316 Pattern recognition
(Mustererkennung, 5 Credits)
Lecture: Thu, 14-16, online, Prof. Henrich
Exercises: Wed, 14-15, online, J. Hartwig

INF 326 Foundations of Data Management
(Foundations of Data Management, 5 Credits)
Lecture: online, Prof. Martens
Exercises: online, Dr. Niewerth



INF 328: Process Aware Information System
(Modul: Advanced Information Systems, 5 Credits)
Lecture: Tue, 10-12, INF–H34, Dr. Ackermann
Exercises: Thu, 10-11, INF–S110, Dr. Ackermann

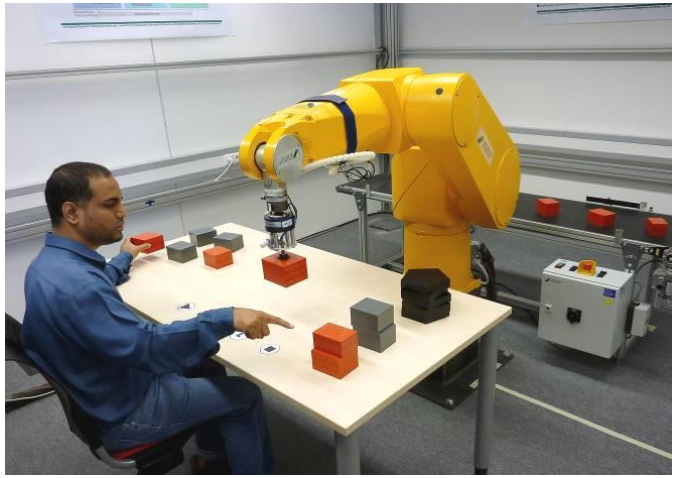
Courses in summer term 2022

INF 214 Foundations of Modelling
(Grundlagen der Modellierung, 5 Credits)
Lecture: Tue, 16-18, INF-S112, Prof. Westfechtel
Exercises: To be announced, J. Schröpfer

INF 218 Programming, Data Analysis and Deep Learning in Python
(Programmieren und Datenanalyse in Python, 5 Credits)
Lecture: Tue, 10-12, INF-H33, Prof. Müller
Exercises: To be announced, A. Fleig

INF 219 Intelligent User Interfaces, 5 Credits)
Lecture: Thu, 14-16, INF-S112, Dr. Buschek
Exercises: Thu, 16-18, INF-S112, Dr. Buschek

INF 307 Data Analysis II
(Modul: Data Analytics, 8 Credits)
Lecture: Mon, 12-14, INF-H34, Prof. Jablonski/ Dr. Ackermann
Exercises: Tue, 8-10, INF-H34, N. Schützenmeier



For INF 307 (Data Analytics) both parts (Data Analysis I and Data Analysis II) are necessary

INF 315 Robotics II
(Robotik II, 5 Credits)
Lecture: Thu, 14-16, INF-H34, Prof. Henrich
Exercises: Fri, 10-11, INF-S110, D. Singer

INF 317 Computer graphics III
(Computergraphik III, 5 Credits)
Lecture: Tue, 8-10, INF-S110, Prof. Guthe
Exercises: Thu, 13-14, INF-S110, K. Liu

INF 320 Parallel algorithms
(Parallele Algorithmen, 5 Credits)
Lecture: Thu, 8-10, INF-S112, Dr. Korch
Exercises: Fri, 10-12, INF-S112, Dr. Korch

INF 321 Foundations of Semi-structured Data
(Foundations of Semi-structured Data, 5 Credits)
Lecture: Mon, 16-18, INF-S112, Prof. Martens
Exercises: Wed, 14-16, INF-S112, Prof. Martens

Section B: Projects

To be achieved: 30 to 31 Credits

Please contact the computer science chairs directly.

Projects in both terms

INF 351: Small Master Project
(Kleines Master-Projekt, 8 Credits)

INF 352: Large Master Project
(Großes Master-Projekt, 15 Credits)

At least one Big Master Seminar needed.

INF 353: Large Master Seminar
(Großes Master-Seminar, 8 Credits)

At most one Big Master Seminar allowed.

Section C: Languages

To be achieved: 15 to 24 Credits

The German language courses are provided by the Language Centre (Sprachenzentrum)
Please see: www.sz.uni-bayreuth.de

German Level A1 has to be achieved within first year.

Section D: Master Thesis

To be achieved: 30 Credits

INF 301: Master Thesis
(Masterarbeit, 30 Credits)

Please contact the computer science chairs directly.

UNIVERSITÄT BAYREUTH

Valid for **summer term 2022** and winter term 2021/22

Master's program in Computer Science

www.ai.uni-bayreuth.de/de/studium/master-computer-science/