

Web and Data Science

University of Koblenz
Master of Science



General Information

Understand, analyze and shape the World Wide Web

The international programme in Web and Data Science is the first of its kind in Germany. It is directed towards students aiming to extend their scientific skills, to qualify for leading positions by sharpening their profile and to advance their personal development.

Overview

The master programme in Web and Data Science covers specialized knowledge for analysing data and for designing and developing Web and data-intensive systems. Key to such development and analysis is the understanding of the Web and data ecosystems as being multi-faceted, governed by technologies, economics, and social interactions of humans, interest groups, companies and governments.

The Master program prepares the graduate for independent academic work, lays the foundations for further achievements in the subject area, and provides the skillset for continuing doctoral studies. It is a qualification for the ability to conduct complex tasks responsibly, with a focus on scientific soundness, intellectual independence, which are prerequisites for all kinds of research.

Degree

Master of Science

Standard period of study

4

Start of programme

Winter semester

Application deadline for winter semester

11.10.2024

Teaching language

English

Admission restriction

no

Admission requirements

- A Bachelors' degree in Computer Science, Computational Visualistics, Information Systems or silimar with at least 60 ECTS credits in Computer Science, each with an overall grade of 2.5 ("good") or better
- An English language certificate (TOEFL with 79 or more points, Cambridge Certificate at level auf B2 or IELTS with at least 6.5 points)

Further links

- [Applicants from abroad](#)
- [Institute for Web Science and Technologies](#)

Content

Contents and structure

- Introduction to Web Science, Network Theory and Dynamic Systems, Engineering Web and



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[Zur Webseite >](#)

Data-intensive Systems

- Introduction to Data Science, Big Data und Machine Learning and Data Mining
- Wahlpflichtveranstaltungen aus der Informatik mit Bezug zu Web und Data Science
- Wahlpflichtveranstaltungen aus beliebigen interdisziplinären Bereichen mit Bezug zu Web und Data Science

Prospects

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Apart from its strong academic focus, the program has a clear focus on employability. Whether you are entering the job market, want to fulfil executive position, progress from your current position, or are looking for a career change, the course provides the right skill set to:

1. collect and use relevant data to influence business decisions
2. develop Web systems, Web strategies and Web and data ecosystems
3. provide substantial practice for strategic communication via data science

University

University

The University of Koblenz is one of the youngest universities in Germany. Research, teaching and everyday life at the university campus in Koblenz-Metternich are characterised by short distances and active interdisciplinarity.

The university's claim is "continue discovering". This reflects the incentive and aspiration of all members of the university to constantly scrutinise the familiar in order to gain new insights. To this end, the university offers its members the necessary freedom to further develop their academics and teaching and to break new ground in the transfer of ideas, knowledge and technology.

Informatik

Mathematik

Statistik