



SRH University Heidelberg

# Applied Data Science and Analytics Master of Science



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### **Your motivation**

**Are you interested in optimising processes?**

**Do you have a structured way of thinking and want to work in a cutting-edge sector?**

As a data scientist, you'll be in a key position when it comes to handling large and unstructured datasets and deriving knowledge from them.

### **Your prospects**

**The perfect opportunity to land your dream job in the sector of your choice!**

Equipped with a Master's degree in Applied Data Science and Analytics and qualified at all levels of data science, you will have maximum opportunities in all sectors such as manufacturing, banking, insurance, IT, consulting, public or industrial research services, healthcare, as well as further and higher education.

### **Possible fields of work:**

- Data scientist
- Data analyst
- Data engineer
- Data architect
- Business intelligence developer
- Machine learning engineer
- Deep learning expert

## Course content and skills

### You gain expertise and learn at the cutting edge.

In our Master's programme in Applied Data Science and Analytics will gain you in-depth knowledge and an understanding of the entire data science process. You will learn how to apply mathematical, analytical and machine learning/deep learning techniques to derive insights from large and often unstructured datasets.

### You optimise processes and use your knowledge in a practical way.

In project-based modules, you will work with real customers. Besides completing a compulsory three-month internship at a company of your choice, you may also write your Master's thesis in cooperation with a company, giving you almost one year of professional experience during your studies. You will have the best prerequisites for embarking on a successful career.

Past graduates now work for ABB, Heidelberg Cement, Airbus, Accenture, Adidas, Audi, Bosch, BMW, BASF, Deloitte, Deutsche Börse, SAP and Verivox, as well as for successful SMEs.

With this Master's degree, you will also be ideally equipped for a position in the public sector or in research. You will also be eligible to start a doctorate.

## Apply now!

Scan the QR code



## At a glance

### Degree

Master of Science (M.Sc.)

### Course language

English

### Credit points

120 ECTS

### Start of academic programme

Summer and winter semester

### Duration of study

4 semesters

### Tuition fees

EEA students:

- € 790 per month
- One-time enrolment fee of € 750

Non-EEA students (without permanent residence permit):

- € 6,450 per semester
- One-time enrolment fee of € 1,000

### State-accredited university

Accredited by ZEvA; state-accredited

### Admission requirements

- A Bachelor's degree (180 ECTS) or a Diplom degree in computer science, data science, information technology, artificial intelligence, data analysis, mathematics or business informatics
- English language proficiency: IELTS 6.5 / TOEFL 80 / Duolingo Certificate 120 / PTE Academics 58 or a comparable test
- Successful completion of the university's own application process

# Your study programme.

Instead of numerous subjects, you focus on a 5-week block at a time (module). Each block ends with an examination. By this sustainable process, you achieve optimal learning results.

## Semester

<b>01</b>	First steps into Case Studies	Data Analytics I	Data Visualisation & Storytelling I	Big Data Programming I	Data Engineering I	Data Management I
	<b>Examination &amp; credits</b>	PA   5 ECTS	Kls & PrA   8 ECTS	LT   2 ECTS	PA   6 ECTS	PA   5 ECTS
<b>02</b>	Data Analytics II	Data Engineering II	Data Visualisation & Storytelling II	Privacy, Ethics and International Law	Case Study I	
	<b>Examination &amp; credits</b>	Kls & PrA   7 ECTS	PA   6 ECTS	PA & Präs   5 ECTS	Kls   6 ECTS	PA   8 ECTS
<b>03</b>	Data Management II	Data Visualisation & Storytelling II	Data Analytics II	Case Study II	or Internship	
	<b>Examination &amp; credits</b>	PA & Präs   4 ECTS	PA & Präs   5 ECTS	Kls & PrA   8 ECTS	PA   14 ECTS	PB & WP   14 ECTS
<b>04</b>	Master's Thesis and Colloquium					
	<b>Examination &amp; credits</b>	Th & Ko   27 ECTS				

The university reserves the right to make changes.

## Explanation

<b>PA:</b> Project Work	<b>PB:</b> Internship Report
<b>Kls:</b> Written Examination	<b>WP:</b> Scientific Poster Presentation
<b>PrA:</b> Practical Work	<b>Th:</b> Thesis
<b>LT:</b> Learning Diary	<b>Ko:</b> Colloquium
<b>Präs:</b> Presentation	