Table of Contents

Master's degree ........................................................................................................................................ 2

Technology and Innovation Management • Harz University of Applied Sciences • Wernigerode........ 2
Master's degree

Technology and Innovation Management
Harz University of Applied Sciences • Wernigerode

Overview

<table>
<thead>
<tr>
<th>Degree</th>
<th>Master of Engineering (MEng)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching language</td>
<td>English</td>
</tr>
<tr>
<td>Languages</td>
<td>English only</td>
</tr>
<tr>
<td>Programme duration</td>
<td>4 semesters</td>
</tr>
<tr>
<td>Beginning</td>
<td>Winter and summer semester</td>
</tr>
<tr>
<td>More information on beginning of studies</td>
<td>Check our semester plan for updates: <a href="https://www.hs-harz.de/en/university/about-us/academic-calendar/">https://www.hs-harz.de/en/university/about-us/academic-calendar/</a></td>
</tr>
<tr>
<td>Application deadline</td>
<td>Please apply via <a href="https://www.uni-assist.de/en/">https://www.uni-assist.de/en/</a></td>
</tr>
<tr>
<td>Tuition fees per semester in EUR</td>
<td>None</td>
</tr>
<tr>
<td>Combined Master’s degree / PhD programme</td>
<td>No</td>
</tr>
<tr>
<td>Joint degree / double degree programme</td>
<td>No</td>
</tr>
</tbody>
</table>

Description/content

Innovation and technology are key drivers of competitive advantage in today's knowledge economy. Digital technologies and the Internet of Things have launched a new industrial revolution: the digitalisation of processes along the value chains of the manufacturing and service industry. The study programme is conducted by professional experts who analyse current innovation trends and future business opportunities. Building on their qualifications, they suggest decisions on innovations for management. Graduates of this study programme provide support for the systematic implementation of innovation processes by considering managerial and technical aspects. They link solutions for automation and digitalisation with the underlying business processes.
The study programme combines engineering, IT and business competences in a methodically sound manner. A core aspect is an **applied** scientific approach to recent and emerging trends in digitalisation that affect technological, manufacturing, and organisational patterns. Students will be empowered to plan, implement, and advocate their projects and solutions as well as to take management responsibilities.

The Master’s degree also gives graduates of the programme the possibility to pursue a doctoral and academic career path.

## Course Details

### Course organisation

Depending on previous academic records, candidates may opt for the regular course track with four semesters or for the fast course track with three semesters. For details, please see the information on admission requirements.

**Curriculum for adjustment — regular track only (one semester, 30 ECTS)**

- Electives in business
- Introduction to Industry 4.0 and research fields in computer science
- Engineering project based on laboratory assignments
- German as a Foreign Language (several levels)

**Core curriculum - regular and fast track (two semesters, 30 ECTS each)**

- Strategic Innovation Management
- Operations Research and IT Security Risk Assessment
- Agile Requirements Engineering and Digital Transformation
- Information Retrieval Technology
- Digital Business Models and Idea Engineering
- Functional Safety
- Technology Assessment and Sustainability
- Big Data and Geoinformation
- Elective in current technologies, e.g., Mixed Reality, Smart Buildings
- Research and development project integrating research methods and academic writing

**Master’s thesis and colloquium (one semester, 30 ECTS)**

### Types of assessment

<table>
<thead>
<tr>
<th>Types of assessment</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project work reports and presentations, written and oral examination, semester papers, software drafts, Master’s thesis and colloquium</td>
<td></td>
</tr>
</tbody>
</table>

### A Diploma supplement will be issued

Yes

### International elements

- International guest lecturers
- Language training provided
- Training in intercultural skills

### Course-specific, integrated German language courses

Yes

### Course-specific, integrated English language courses

Yes
Costs / Funding

<table>
<thead>
<tr>
<th>Tuition fees per semester in EUR</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester contribution</td>
<td>103 EUR (including free regional public transportation)</td>
</tr>
<tr>
<td>Costs of living</td>
<td>Approx. 820 EUR per month</td>
</tr>
<tr>
<td>Funding opportunities within the university</td>
<td>No</td>
</tr>
</tbody>
</table>

Requirements / Registration

| Academic admission requirements | A prerequisite for admission is a first university degree with a "good" overall performance. A degree with a minimum of 180 ECTS credit points (or equivalent) is required for admission to the regular track. A degree worth 210 ECTS credit points is eligible for fast track admission. The previous degree should relate to industrial engineering and management, business informatics, technical management, or other engineering subjects. A minimum of 10 weeks of professional experience related to the first degree’s subject area is requested. The admission board decides on each candidate's admission on the basis of academic performance, language proficiency, and professional experience. |
| Language requirements           | English B2 (upper score), German recommended |
| Application deadline            | Please apply via [https://www.uni-assist.de/en/](https://www.uni-assist.de/en/) |
|                                | The deadlines are: |
|                                | 15 December for the following summer semester |
|                                | 15 June for the following winter semester |
| Submit application to          | Hochschule Harz |
|                                | c/o uni-assist e.V. |
|                                | 11507 Berlin |

Services

| Possibility of finding part-time employment | On campus: assistantships, sports training supervisor, tutorships |
|                                            | Off campus: Counselling to help students find off-campus employment is available upon individual request. |
| Accommodation                              | Student residences via Studentenwerk Magdeburg (student service network) or private housing in town |
|                                            | Monthly cost: approx. 250 to 350 EUR |
The Department of Automation and Computer Sciences offers a range of specialist and multidisciplinary Bachelor's and Master's study programmes related to Informatics and Engineering. All degree programmes are characterised by a high level of computer science. The modern educational concept is geared to the needs of industry, administration, and service companies, in which computer science knowledge is indispensable. Modern, well-equipped lecture halls, and seminar rooms as well as technical and multimedia laboratories support this educational concept.

As the university is on a small scale, there is far more personalised support than is possible at many larger universities. With its ultra-modern services such as the multimedia and language centre, spacious lecture rooms, and the latest technology and wireless LAN provided across the whole campus, Harz University of Applied Sciences offers an outstanding learning environment and the ideal setting for serious study. We offer more than 30 excellent sports courses on campus and in our modern gyms ranging from badminton to Zumba.

For more information, click here to see a short film: https://www.hs-harz.de/en/university/.

---

**Career advisory service**

Upon individual request

**Specific specialist or non-specialist support for international students and doctoral candidates**

- Welcome event
- Specialist counselling
- Visa matters

**Support programmes for international students**

- Individual guidance provided by the International Office
- InterForum (international students association)
- Other students associations (eSports, Christian students, film club, ecologists, computer helpline, and more)
- A wide range of student events (international party night, open air campus festival, computer challenges, repair café, and more)

**Supervisor-student ratio**

1:5

---

**Harz University of Applied Sciences**

Favourite meeting point at the "Red Square"

© Hochschule Harz

The Department of Automation and Computer Sciences offers a range of specialist and multidisciplinary Bachelor's and Master's study programmes related to Informatics and Engineering. All degree programmes are characterised by a high level of computer science. The modern educational concept is geared to the needs of industry, administration, and service companies, in which computer science knowledge is indispensable. Modern, well-equipped lecture halls, and seminar rooms as well as technical and multimedia laboratories support this educational concept.

As the university is on a small scale, there is far more personalised support than is possible at many larger universities. With its ultra-modern services such as the multimedia and language centre, spacious lecture rooms, and the latest technology and wireless LAN provided across the whole campus, Harz University of Applied Sciences offers an outstanding learning environment and the ideal setting for serious study. We offer more than 30 excellent sports courses on campus and in our modern gyms ranging from badminton to Zumba.

For more information, click here to see a short film: https://www.hs-harz.de/en/university/.

---
University location

Studying in the heart of Germany

Harz University of Applied Sciences is well known for its friendly atmosphere and park-like campus paired with the charm of a beautiful, medieval town. Harz University of Applied Sciences in situated in Saxony-Anhalt close to the Harz mountains range – in the very centre of Germany. Both campuses — Wernigerode and Halberstadt — inspire with a wealth of natural landscapes, history, and architecture. The highest peak of the Harz mountains is the Brocken, subject of legends and myths. The Brocken rises over the national park area, which is a favourite place for hikers and bikers – and for sledging in the snow-white winter season. Wernigerode is very famous for its colourful half-timbered houses, the medieval town hall, and the romantic castle up the hill. Wernigerode combines the advantages of a small town with a central geographical situation: You can live in a comfortable and familiar environment, and reach major cities like Magdeburg, Brunswick, Berlin, Leipzig, or Hanover within one to three hours by train or car.

Tourist information on the Harz region can be found at https://en.harzinfo.de/.

Contact

Harz University of Applied Sciences
Faculty of Automation and Computer Sciences

Prof Dr Thomas Leich
Friedrichstraße 57-59
38855 Wernigerode

tim@hs-harz.de
Course website: https://www.hs-harz.de/technology-and-innovation-management/

https://www.facebook.com/hochschuleharz
https://twitter.com/hs_harz
https://www.linkedin.com/school/hochschuleharz/
https://www.instagram.com/hochschule_harz/

Last update 06.07.2021 11:06:52
International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

Editor
DAAD - Deutscher Akademischer Austauschdienst e.V.
German Academic Exchange Service
Section K23 – Information on Studying in Germany
(responsible: Esther Kirk)
Kennedyallee 50
D-53175 Bonn
www.daad.de

GATE-Germany
Consortium for International Higher Education Marketing
www.gate-germany.de

Disclaimer
The data used for this database was collected and analysed in good faith and with due diligence. The DAAD and the Content5 AG accept no liability for the correctness of the data contained in the "International Programmes in Germany" and "Language and Short Courses in Germany".

The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.