

Areas of research

Applied agricultural research and environmental engineering

- Agrarian biotechnology
- Agrarian economics, especially business management, agricultural markets, agricultural policy
- Agriculture and process engineering
- Rural development
- Sustainable livestock and plant production

Application of artificial intelligence

- Artificial Intelligence (AI) and data science

Digital production and logistics

- Robotics
- Supply chain management and digitalisation of the supply chain
- Logistics
- Industry 4.0
- Autonomous / intelligent systems
- Fuzzy technologies
- Industrial and biotechnological image processing, computer vision

Digital transformation of the economy

- Process optimisation and big data analytics
- E-commerce and e-governance
- Market and social research

Digital transformation of the work environment

- Competence and change management

Early childhood education

- Participation and inclusion
- Early STEM education



Lighting applications

- Lighting technologies (LED)

Media education

- Media education
- Media didactics
- Media socialisation

Mobility

- Automated mobility
- Chassis technology
- Lightweight construction
- Simulation, Cax
- Alternative drives

Sustainable production

- Plastics engineering
- Forming technology
- Generative manufacturing technology

Safe energy supply

- Energy efficiency
- Renewable energies
- Intelligent grids (smart grids), storage systems

Materials applications and surface engineering

- Bio- and nanotechnology
- High-strength steels, heat treatment
- Plastics processing: thermoplastics and thermosets processing
- Corrosion and surface engineering

Other

- Sensor applications
- Health technology, ethics
- Medical technology

Research & development

In-house institutions

- BBCC.NRW Broad Band Center of Excellence
- CV&CI – Institute for Computer Science, Computer Vision and Computational Intelligence
- HSK.i – Institute for Innovation
- IFAT – Institute for Vehicle Drive Engineering, Iserlohn
- i.GREEN – Institute for Green Technology & Rural Development
- IQEM – Institute for Quality Development and Quality Management

Cooperating institutes

- Fraunhofer Application Center for Inorganic Phosphors, Soest
- Institute for Waste Management and Environmental Engineering gGmbH (IFEU), Iserlohn
- Institute for Industrial Management of the Steinbeis Foundation, Meschede
- Institute for Maintenance and Corrosion Protection gGmbH (IFINKOR)
- Institute for Forming Technology GmbH (IFU), Lüdenschied
- Plastics Institute for Small and Medium-Sized Enterprises
- NRW GmbH (KIMW), Lüdenschied
- KIMWResearch GmbH (KIMW-F gGmbH), Lüdenschied
- Steinbeis Transfer Centre for Broadband and Media Technology (I.BM.T), Meschede
- Steinbeis Transfer Centre for Environmental Process Engineering and Water Management, Meschede
- Steinbeis Transfer Centre for Lightweight Construction Technology, Meschede
- Institute of Tool Making South Westphalia GmbH, Lüdenschied

Further information on our university: www.fh-swf.de/en/
The university on social media: www.fh-swf.de/cms/socialmedia

South Westphalia University of Applied Sciences

The South Westphalia University of Applied Sciences has campuses in the cities of Hagen, Iserlohn, Lüdenschied, Meschede and Soest. We are among the larger universities of applied sciences in the region of North Rhine-Westphalia with approximately 11,000 students in total. However, students can enjoy a family-like atmosphere at the individual campuses. Small study groups and personal support – that is our formula for success. Excellent facilities, modern and future-oriented study and research focuses – here you can start a successful career.

We offer a broad range of practice- and future-oriented degree courses in the fields of agriculture, design management and product development, health and natural sciences, computer science and digitalisation, education and psychology, technology and engineering, environment and sustainability, business and law.

The courses we offer also have an international focus and are tailored to your needs: for full-time students, for professionals or for those who would like to combine an apprenticeship with a degree or complete a dual degree course.

We consistently focus our research and development on practice and application. We benefit from our network of cooperation partners from industry, associations and institutions.

<https://www.fh-swf.de/en/>

Student Advisory

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The University at a Glance

Hagen · Iserlohn · Lüdenschied · Meschede · Soest



Hagen

Full-time courses

- Applied Sciences in Technology and Economics (M.Sc.)
- Business Administration
- Electrical Engineering
- Informatics and Business (M.Sc.)
- International Business Administration and Engineering
- International Business Administration and Informatics
- International Business Administration
- Media Informatics
- Medical Engineering
- Robotics
- Computer Engineering
- Business Administration and Computer Science
- Business Administration and Engineering – Green Civil and Building Engineering (Hagen/Lüdenscheid)
- Business Administration and Engineering
- Business Administration and Engineering (M.Sc.)

Part-time courses

- Part-time Business Administration and Business Law
- Connected Lighting (M.Eng.)
- Part-time Electrical Engineering
- Part-time Electrical Engineering (M.Eng.)
- Postgraduate part-time Management for Engineering and Natural Sciences MBA
- Part-time Business Administration and Engineering
- Part-time Business Law
- Postgraduate part-time Business Law (LL.M.)



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Iserlohn

Full-time courses

- Applied Biology
- Applied Sciences in Technology and Economics (M.Sc.)
- Automotive
- Digital Transformation Mechanical Engineering
- Manufacturing Technology
- Computer Science
- Integrated Engineering (M.Eng.)
- Plastics Engineering
- Mechanical Engineering (planned)
- Mechatronics
- Engineering Design

Part-time courses

- Part-time Applied Computer Science
- Part-time Applied Computer Science (M.Sc.)
- Part-time Applied Artificial Intelligence (M.Sc.)
- Life Science Engineering (M.Sc.)
- Part-time Mechanical Engineering
- Part-time Mechanical Engineering (M.Eng.)
- Part-time Mechatronics



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Frauenstuhlweg 31
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Lüdenscheid

Full-time courses

- Medical Engineering
- Medical Engineering (M.Eng.)
- Business Administration and Engineering – Green Civil and Building Engineering

Part-time courses

- Part-time Plastics Engineering
- Part-time Mechanical Engineering (M.Eng.)



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Bahnhofsallee 5
58507 Lüdenscheid

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Meschede

Full-time courses

- Applied Business Administration
- Applied Sciences in Technology and Economics (M.Sc.)
- Electrical Engineering
- Electrical Engineering (M.Eng.)
- International Management
- Mechanical Engineering
- Strategic Management (M.A.)
- Business Administration
- Business Administration and Computer Science
- Business Administration and Engineering
- Business Psychology
- Business Psychology (M.Sc.)
with focus on Coaching & Change

Part-time courses

- Postgraduate part-time Data Science (M.Sc.)
- Postgraduate part-time Management for Engineering and Natural Sciences MBA
- Part-time Mechanical Engineering (M.Eng., Iserlohn/Lüdenscheid/Meschede)



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Soest

Full-time courses

- Agriculture
- Agriculture (M.Sc.)
- Applied Sciences in Technology and Economics (M.Sc.)
- Business Administration with Informatics
- Data Science for Agriculture (planned)
- Design and Project Management
- Digital Technologies
- Dual study course Digital Technologies (practice-integrating + training-integrating)
- Digital Technologies (M.Eng.)
- Electrical Engineering
- Dual study course Electrical Engineering (practice-integrating + training-integrating)
- Early Childhood Education
- International Management & Information Systems (M.A.)
- Mechanical Engineering
- Dual study course Mechanical Engineering (practice-integrating + training-integrating)
- Sustainable Food Systems (planned)
- Ecology and Sustainability Management (planned)
- Systems Engineering and Engineering Management (M.Sc.)
- Industrial Engineering
- Dual degree course Industrial Engineering (practice-integrating + training-integrating)

Part-time courses

- Part-time Early Childhood Education
- Part-time Early Childhood Education (M.A.)
- International Management and Information Systems – Online M.A. (Postgraduate part-time degree course)
- Part-time Media Education (M.A.)
- Postgraduate part-time Management for Engineering and Natural Sciences MBA
- Part-time Industrial Engineering and Management (B.Eng.)



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