

# South Westphalia University of Applied Sciences

The South Westphalia University of Applied Sciences has sites in Hagen, Iserlohn, Lüdenscheid, Meschede and Soest. With around 13 400 students, we are one of the largest Universities of Applied Sciences in North Rhine Westphalia. But there is still a family atmosphere among students at the individual sites. The secrets of our success are small classes and personal support. Excellent resources and modern, future-oriented study and research focuses make this the perfect place to start a successful professional career.

We produce qualified experts and managers in the fields of agricultural science, business management, early years education, engineering, information technology and natural sciences. Our range of courses, some of which are also international, is tailored to cater for both full-time students and those in employment and can also accommodate those wishing to combine vocational training with studies.

Our research and development work is consistently practical and application-oriented. We use a close network of cooperation partners in business, associations and institutions.



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[www.fh-swf.de](http://www.fh-swf.de)



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## Research and development

### In-house institutions

CV&CI Institute: Computer Science, Computer Vision and Computational Intelligence

i.GREEN Institute for Green Technology & Rural Development

BBCC.NRW Broadband Centre of Excellence

HSK.i-Institute for Innovation

IQEM - Institute for Quality Improvement and Quality Management

WZF - Scientific Centre for Early Childhood Education and Care

wzDSW - Research Centre for Cooperative Studies and Further Education

### Cooperating institutes

Fraunhofer Application Center for Inorganic Phosphors, Soest  
Institute for Disposal and Environmental Technology (IFEU), Iserlohn

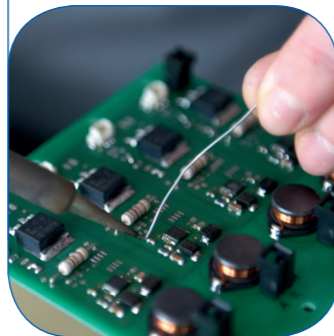
Steinbeis Foundation Institute for Industrial Management, Meschede

Institute for Maintenance and Corrosion Protection (IFINKOR)

Institute for Forming Technology (IFU), Lüdenscheid

Plastics Institute for Medium-Sized Companies (KIMW), Lüdenscheid

Steinbeis Transfer Center for Broadband and Mediatechnology (I.BM.T), Meschede



Steinbeis Transfer Center Meschede, Environmental Engineering and Water Resource Management

Steinbeis Transfer Center - Lightweight Design, Meschede

South Westphalia Tool Manufacturer Institute, Lüdenscheid

South Westphalia Scientific Association

### Areas of research

#### Automotive

Forming technology

Joining

Energy efficiency in mass forming

Chassis technology, wheel suspension, suspension/absorption

Tribology on valve drives and shock absorber systems

Simulation, CAx

Material flow simulation, wear prediction

Plastics technology

Lightweight construction

#### Health & wellness

Medical technology and devices

#### Materials

Plastics processing: thermoplastic and duroplastic processing

Super-strength steels, heat treatment

Corrosion and surface treatment

Biotechnology and nanotechnology

#### Environment and energy

Distributed energy supply, energy generation and storage systems, intelligent networks (smart grids)

New lighting technologies (LED)

New energy technologies and rational energy applications

Reduction of pollutants from combustion engines

Environment process technology, waste water purification

#### Information and communication technology

Industrial image processing, computer vision

Computational intelligence, fuzzy technology

Broadband technologies

Robotics with vision systems, mobile robotics

Bio-technical image processing

#### Agriculture and rural areas

Sustainable agriculture

Agricultural biotechnology

Soil ecology, soil processing, soil protection

Agricultural economy

Agricultural and process technology

Plant and vegetable production

Livestock farming

## The University at a Glance

Hagen · Iserlohn · Meschede · Soest · Lüdenscheid



# Hagen

## Full-time courses

- Electrical Engineering for Energy, Lighting, Automation
- International Studies of Business Administration and Computer Science
- International Studies of Business Administration and Engineering
- Medical Engineering (Hagen/Lüdenscheid)\*
- Medical Computer Engineering
- Computer Engineering
- Business Administration and Computer Science
- Business Administration and Engineering
- Business Administration and Engineering (Masters)
- Business Administration and Engineering – Green Civil and building engineering (Hagen/Lüdenscheid)\*

## Part-time courses

- Business Administration with Law
- Electrical Engineering
- Electronic Systems (Masters)
- Part-time postgraduate Business Administration and Engineering (Masters)
- Business Administration and Engineering
- Business Law
- Part-time postgraduate Business Law (Masters)



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\* The first 4 semesters of the course are held in Hagen and semesters 5 to 7 in Lüdenscheid.

# Iserlohn

## Full-time courses

- Applied Computer Science (Masters)
- Automotive Engineering
- Biotechnology and Nanotechnology
- Computer Science
- Manufacturing Technology
- Integrated Engineering (Masters)
- Plastics Engineering (Iserlohn/Lüdenscheid)
- Mechatronics
- Engineering Design

## Part-time courses

- Applied Computer Science
- Plastics Engineering (Lüdenscheid)\*
- Mechanical Engineering
- Mechanical Engineering (Masters, Iserlohn/Lüdenscheid)\*
- Mechatronics



\* The plastics technology course is held in Lüdenscheid, the mechanical engineering course in Iserlohn and Lüdenscheid.

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# Meschede

## Full-time courses

- Electrical Engineering
- Information and Communication Systems with Management (Masters)
- International Management
- International Management with Engineering
- Mechanical Engineering
- Business Administration
- Business Administration (Masters)
- Mechanical Engineering with Management
- Electrical Engineering with Management

## Part-time course

- Part-time postgraduate Business Administration and Engineering (Masters)



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# Soest

## Full-time courses

- Agriculture
- Agriculture (Masters)
- Business Administration with Informatics\*
- Design and Project Management
- Early Childhood Education
- Electrical Engineering
- Engineering and Project Management
- International Management & Information Systems (Masters)\*
- Mechanical Engineering
- Systems Engineering and Engineering Management (Masters)\*
- Technical Writing and Project Management

## Part-time courses

- Early Childhood Education
- Part-time postgraduate Engineering and Enterprise Management (Masters)



\* taught in English

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