



Welcome to the Faculty of Mechanical Engineering www.maschinenwesen-zittau.de

STUDIEREN_OHNE_GRENZEN

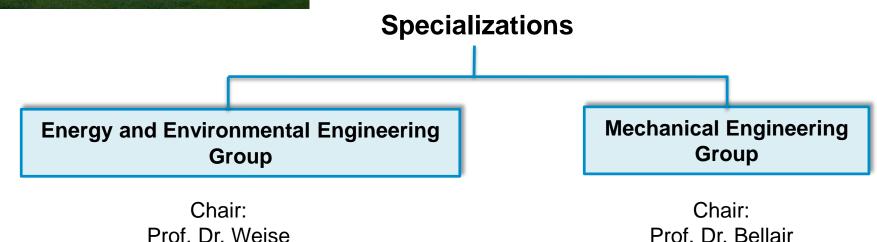


Faculty of Mechanical Engineering



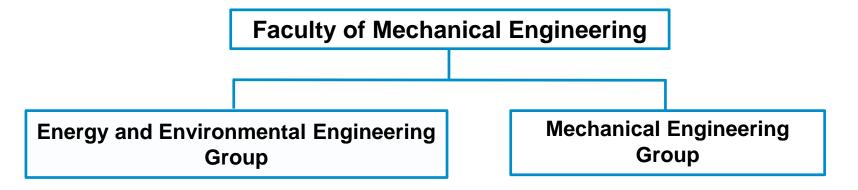
Faculty Management and Secretariat

Dean:	Prof. Hans-Joachim Kretzschmar
Vice Dean:	Prof. Markus Fulland
Assoc. Dean for Acad.:	Prof. Gerlinde Kretschmar
Univ. Board Rep.:	Ms Jutta Pfitzner
Dep't Secretary:	Ms Ilona Hörger





Specializations within the Faculty of Mechanical Engineering



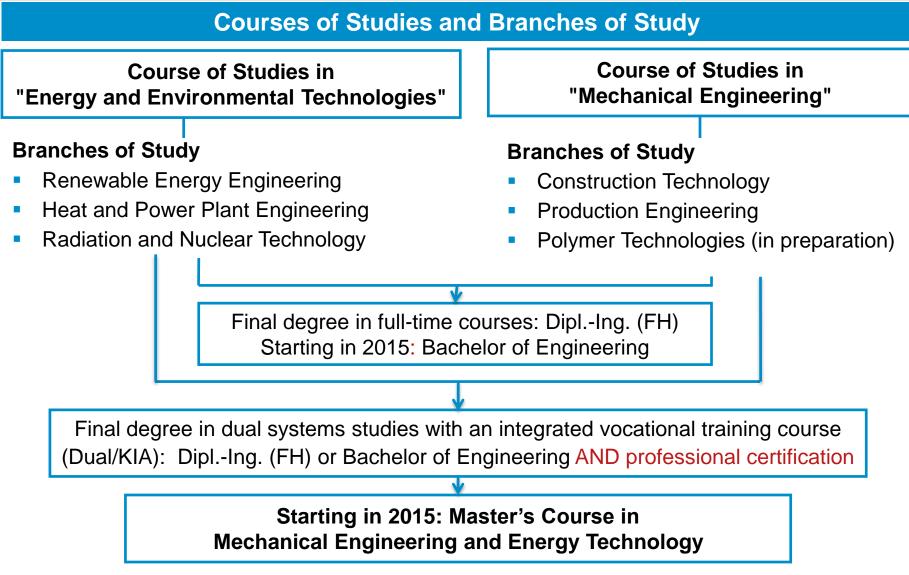
Departments / Chairs

- Technical Thermodynamics
- Fluid Engineering/Fluid Energy Machinery
- Power Plant and Energy Technology
- Renewable Energy Engineering
- Energy System Technology
- Environmental Protection Engineering
- Safety of Reactors and Technical Systems
- Nuclear Radiation Technology

Departments / Chairs

- Materials Technology
- Manufacturing Process
- Applied Mechanics
- Construction Theory
- Machine Components/Drive Technology
- Applied Computer Science for Mechanical Engineering/Mechatronics
- Machine Construction/CAD
- Production Engineering







Laboratories of the Energy and Environmental Engineering Group

Laboratories

- Technical Thermodynamics laboratory
- Fluid Engineering/Fluid Energy Machinery laboratory
- Combustion Technology laboratory
- Environmental Protection laboratory
- Power Engineering laboratory
- Radiation Technology laboratory/Neutron Generator
- Laboratory of Power Plant Technology (ETK)
- Thermochemical testing ground

Laboratory Heads / Lab Engineers

- Dr. Sebastian Herrmann
- Mr Felix Rothe

Ms Jutta Pfitzner, Mr Bert Salomo Ms Jutta Pfitzner, Mr Bert Salomo Ms Jutta Pfitzner, Mr Bert Salomo Mr Uwe Heidrich

Mr Fritz Wodarczack Mr Bert Salomo, Mr Roman Schneider

Laboratories of the Mechanical Engineering Group

Laboratories

Hochschule

- Material Sciences laboratory
- Fracture Mechanics/ Stress Analysis laboratory
- Manufacturing Processes laboratory
- Machinery laboratory
- CAD laboratory
- CAE laboratory
- Production Engineering/CAM laboratory
- Production Measuring Technology/CAQ laboratory

Laboratory Heads / Lab Engineers

Dr. Thomas Kurze

Mr Thomas Amhaus

Mr Armin Kammler Mr Wolfgang Meinck Mr Stephan Zahn Mr Stephan Zahn, Mr Thomas Amhaus Mr Roland Heidrich, Dr. Sebastian Herrmann Mr Wolfgang Meinck

Research and Development Work

- Institute of Surface Technology (IOT)
 - Plasma-enhanced coating technologies
 - Fracture mechanics, crack growth
- Institute of Process Technology, Process Automation and Measurement Technology (IPM)
 - System behavior of power generation units, operation behavior of power plant components
 - Analysis of the combustion-related operational behavior of coal, bio-fuels and waste products
 - Two-phase thermohydraulics and particle-loaded flows
 - Safety of reactors and technical systems
- Polymer technologies and lightweight constructions
 - Structure-optimized natural fibre composites (SNC)
 - Fibre-reinforced polymers
- Production-specific systems
 - Simulation/optimization of manufacturing systems

Prof. Fulland, Prof. Hentschel Prof. Förster, Dr. Reinhold

Prof. Zschunke, Mr Alt

Prof. Klaubert, Prof. Hentschel Prof. Fulland

Prof. Kretschmar

Research and Development Work

Ì	Energetic use of biomass/Combined heat and power - Thermo-chemical testing ground - Combustion technology laboratory	Prof. Zschunke
1	Energetic and material use of biomass - Bio-refinery laboratory	Prof. Haschke, Prof. Hentschel
Ì	Heat storage technologies - Developing latent heat storage with tailored thermal power - Thermo-chemical testing ground	Prof. Meinert er
•	Energy-efficient thermal systems - Heating, cooling; thermal management	Prof. Meinert
1	 Thermodynamic properties of working fluids in energy technology Development of software to calculate thermo- dynamic properties 	Prof. Kretzschmar
ł	Computational fluid dynamics (CFD) and acoustics - Fluid energy machinery laboratory	Prof. Weise
ł	Estimation and dosimetry of radon and thoron - Neutron spectrometry and simulation	Prof. Schönmuth





Thank you for visiting us! www.maschinenwesen-zittau.de

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