Hochschule Reutlingen
Reutlingen University
my campus

Eine Hochschule, viele Facetten
One university, many facets

One university – five faculties

AC Angewandte Chemie

ESB Business School

INF Informatik

TEC Technik

TD Textil & Design

Hochschule Reutlingen
Reutlingen University

Number of professors:	159
Number of students:	5,800
Number of employees:	340
Number of degree programmes:	43
Other institutions:	RIO, RRI, Learning Center, KFRU

One university – five faculties

AC Angewandte Chemie

ESB Business School

INF Informatik

TEC Technik

TD Textil & Design

Number of professors:	16
Number of students:	about 470
Number of employees:	20
Degree programme focus:	Bio-Medical Sciences and „Process Analysis and Technology“ (PA&T)
Teaching and Research Center:	Process Analysis and Technology (PA&T)

One university – five faculties

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AC Angewandte Chemie

ESB BUSINESS SCHOOL

INF Informatik

TEC Technik

TD Textil & Design

Number of professors:	61
Number of students:	over 2,500
Number of employees:	55
Degree programme focus:	International Business, International Management Double Degree, International Operations Management
Teaching and Research Center:	Logistics Training Center

One university – five faculties

AC Angewandte Chemie

ESB Business School

INF Informatik

TEC Technik

TD Textil & Design

Number of professors:	27
Number of students:	1,000
Number of employees:	25
Degree programme focus:	Business Informatics, Services Computing, Medical-Technical Informatics
Teaching and Research Center:	Herman Hollerith Center for Services Computing (HHZ)

One university – five faculties

AC Angewandte Chemie

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INF Informatik

TEC Technik

TD Textil & Design

Number of professors:	34
Number of students:	over 1,100
Number of employees:	43
Degree programme focus:	Mechanical Engineering, Mechatronics
Teaching and Research Center:	Robert Bosch Center for Power Electronics, Reutlinger Center for de-central energy systems and energy efficiency

One university – five faculties

AC Angewandte Chemie

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TEC Technik

TD Textil & Design

Number of professors:	21
Number of students:	740
Number of employees:	21
Degree programme focus:	Textile Technology – Textile Management, Design
Teaching and Research Center:	Center for Interactive Materials

Campus Impressions

Hochschule Reutlingen
Reutlingen University
my campus

Internationality

The University of Reutlingen has been international from the beginning

First double degree programme in Germany (over 30 years ago)

“International University“ award of the German Academic Exchange Service (since 2010)

Highest percent of foreign students

Focused on two-way exchange between students:
93 countries and more than 100 partner universities abroad

Strategy: English-Tracks

Studies abroad – including students of technical subjects (40%)

Employees for international issues are part of a central and de-central structure

Reutlinger International Office (RIO)

Employees for international issues at the different faculties

Quality

Rankings in teaching and research

ESB BWL:	1st place
ESB B-Eng:	1st place
Business Informatics:	4th place
Mechanical engineering:	5th place
T&D:	1st place

Research

Baden-Württemberg Research Ranking:
2nd out of 20

Internationality

1st place (2010 Stifterverband and DAAD)

Networking business and industry

U-Multirank:
Top group in international orientation and regional involvement

Market

Highest Number of master's programme spots in BW (both absolutely and relatively)

Growth

Student Growth

5,850 students
(58% more than in 2007)

Over 6,000 students, including continuing education

New degree programmes, new profiles

Largest provider of master studies

Continuing education

400 participants

Profitabel

Research growth

40% p.a. (400% since 2007)

Employee growth

160 professors, 350 employees
(over 40% more than in 2007)

319 part-time teachers,
185 student assistants
(50% more than in 2007)

Infrastructure growth

Build. 16, 8, 20, Rommelsbach, Böblingen, student dorm, renovating buildings 3 and 4

Research

Rankings

Research ranking in Baden-Württemberg: 2nd place out of 20

4.0 million in project funding

Over 200 relevant scientific publications each year

RRI

91 Research projects

88 employees

Teaching and research center (TRC)

6 Teaching and Research Centers – developed by Reutlingen University

Dealing with important issues for the future

Master's studies programmes integrated into TRCs

Three partners: University – Reutlingen University – companies

Expansion of endowed chairs

Networking

Companies	Advisory boards for all faculties Support groups for all faculties
Research partners	Fraunhofer, NMI, ITV - Denkendorf
Applied science partner	Southwest University Federation, Tübingen-Hohenheim region
University partners	University of Stuttgart, University of Tübingen, foreign universities
Business partners	Steinbeis, Knowledge Foundation
Political work	Work groups, Baden-Württemberg Center of Applied Research, applied sciences board
Internal	Management system, controlling system

Engineering Study Programs

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AC Angewandte Chemie

ESB BUSINESS SCHOOL

INF Informatik

TEC Technik

TD Textil & Design

- Mechanical Engineering (BEng)
- Mechatronics (BEng)
- International Project Engineering (BEng)
- Mechanical Engineering (MSc)
- Mechatronics (MSc)
- Power- and Micro-Electronics (MSc)

- NEW: Distributed Energy Systems and Energy Efficiency (MSc)

Mechanical Engineering

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- Bachelor of Engineering, 7 Semesters
- Master of Science, 3 Semesters.
  Areas of specialization: Product Development and Energy Technology

ME Laboratories

- CAD-Laboratory, CAE-Laboratory
- Welding Technology
- Metallography und Microskopy
- Fluid Mechanics
- Power Machines
- Material Testing Lab, Machine Tool Lab
- Energy Technology
- Simulation Lab
- Polymer Injection Molding

Mechatronics

- Bachelor of Engineering, 7 Semesters. Areas of Specialization: Automation or Microelectronics
- Master of Science, 3 Semesters

Mechatronics Laboratories

- Electrical Drives
- EMC
- Image Processing
- CAE and Signal Processing
- Micro System Technology
- Informatics
- Feedback Control and Digital Signal Processing
- Robotics and Telematics Lab
- Sensor and Control Systems

Mechatronics Bachelor‘s Program

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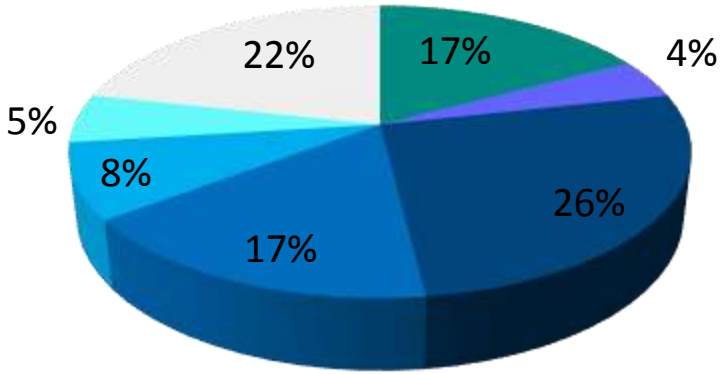
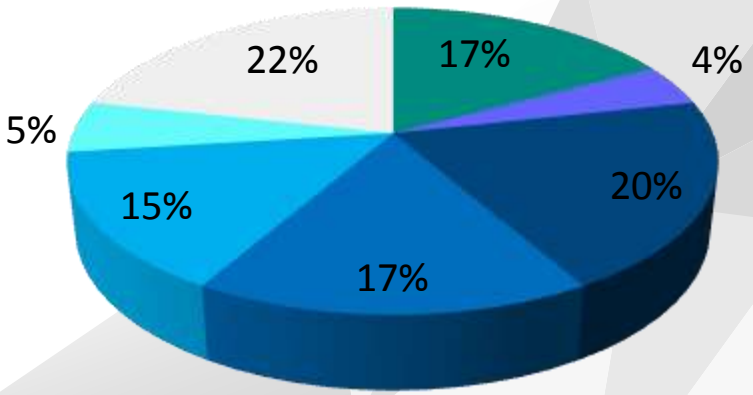
Percentage of the Course of Studies

- Fundamentals
- Mechanics
- Electronics / Microelectronics
- Informatics
- Automation
- Non-technical Skills
- Practical / Thesis

Microelectronics



Automation



Mechatronics Master‘s Program

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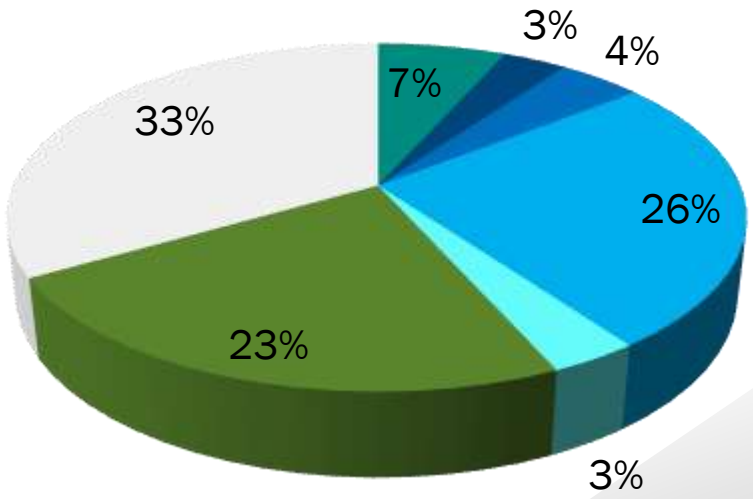
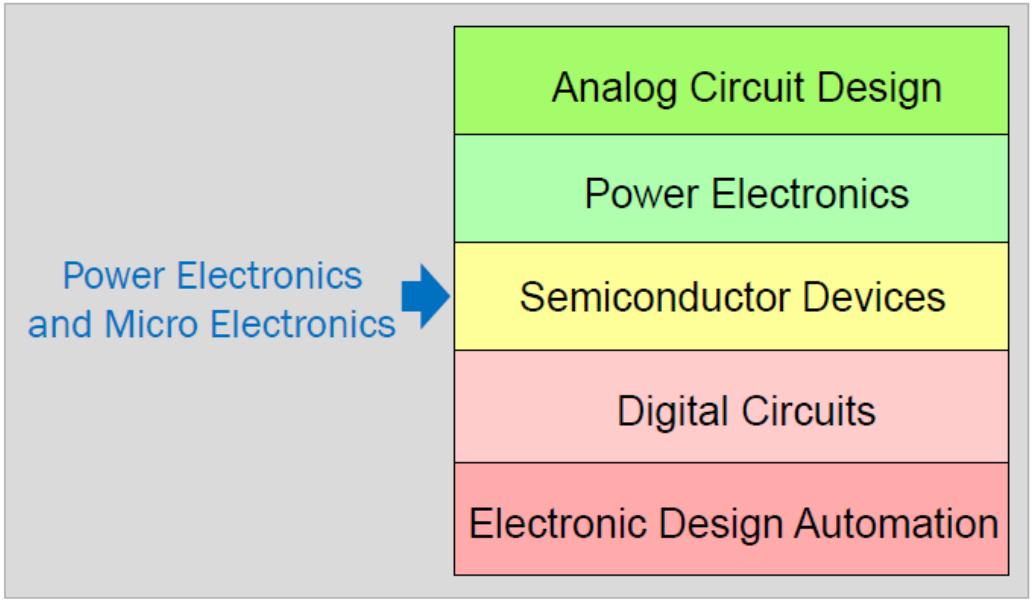
Percentage of the Course of Studies

- Fundamentals
- Electronics/Microelectronics
- Automation
- Informatics

- Non Technical Skills
- Practical/ Thesis
- Optional Courses



Master‘s Program: Power and Micro Electronics



Analog Integrated Circuit Design
- Amplifiers
- Oscillators
- DACs, ADCs
- Linear regulators (LDO)
- DCDC converters
- Power switches
- Gate drivers
- Layout

Power Electronics
- Equivalent circuits
- Passives
- Magnetics
- Converter architectures
- Drivers
- Pulse-Width-Modulation

Semiconductor Devices
- Semiconductor physics
- Diodes
- Transistors
- SCR / thyristor
- IGBT
- Themal behavior

Digital Circuits
- FPGA structures
- VHDL / Verilog
- Synthesis
- Verification
- HW/SW co-design

Electronic Design Automation
- Design tools
- Methods of layout

B.Eng. and M.Sc. Programs offered rbz

„Learn to develop devices, circuits and systems for growing technologies like renewable engergy, electromobility, drives, driver assisstance systems“

Electromobility

Industrial drives

Wind power and photovoltaic

High speed trains

Electronic communication systems

Accident prevention through driver assistance systems

International Project Engineering (IPE)

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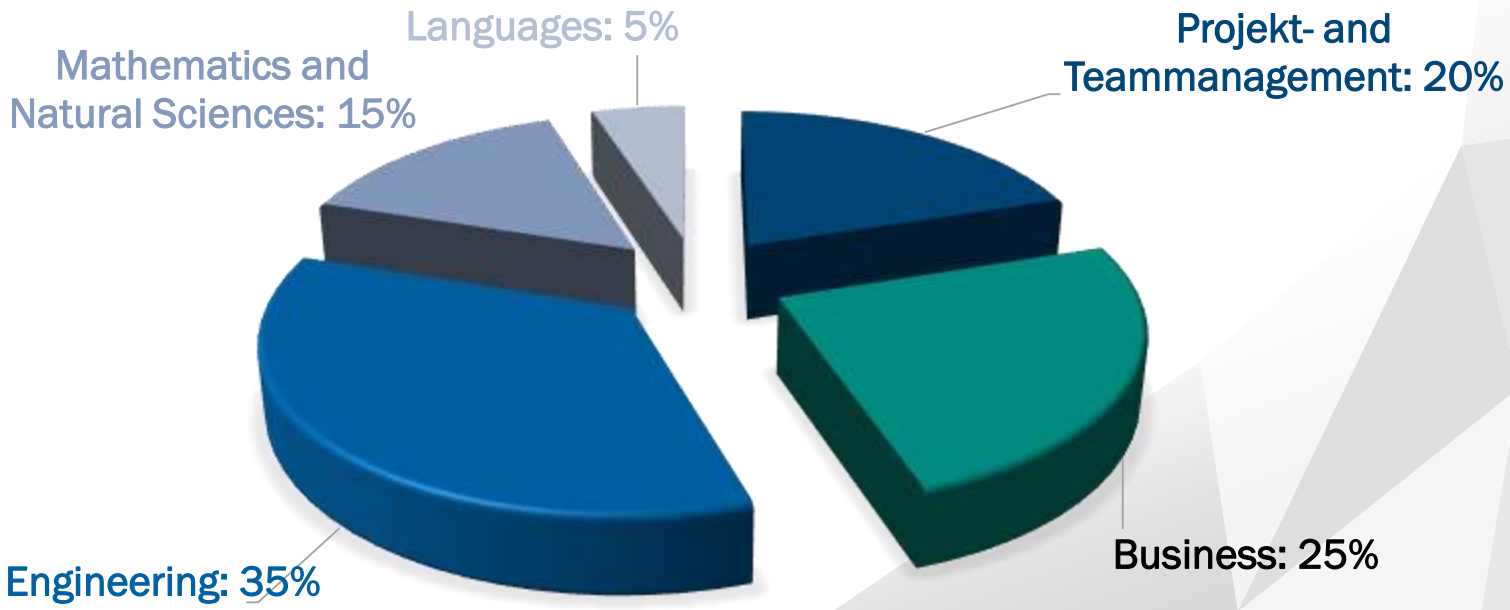
- Bachelor of Engineering, 7 semesters
- Personal interview
- Approximately 250 student, international students from more than 10 countries
- Percentage of women is more than 30%
- More than 50% of all courses are taught in English. Mandatory internship semester in a non-German speaking foreign country



Facts and Figures

Hochschule Reutlingen
Reutlingen University
my campus

- All study programs ASIIN accredited
- Study programms placed among top group in national university rankings (Mechanical Engineering: 5th place in Germany (2014), „Wirtschaftswoche“)
- Appr. 1100 students (second biggest school)
  - Appr. 30-35 international exchange students per semester
- 36 faculty members, 45 administrative and technical employees, appr. 80 lecturers
- Modern laboratory and lecture room infrastructure

Hallmarks

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Reutlingen University
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- Clear practical orientation / Project-based learning approach
  - IP-Plane project
  - R+D projects
  - Product Development project
  - Robo Cup

- Close coooperation with partners from industry in the following areas:
  - Dual education program „Reutlinger Modell“
  - Thesis, internships, industry projects
- Study and Research Centers in different areas
  - Robert Bosch Centre for Power Electronics
  - Energy Centre: Distributed Energy Systems and Energy Efficiency

rbz Robert Bosch Zentrum für Leistungselektronik
Hochschule Reutlingen . Universität Stuttgart . Robert Bosch GmbH

REZ
Dezentrale Energiesysteme und Energieeffizienz

Course Offer for Exchange Students

Hochschule Reutlingen
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- Engineering lectures taught in English:

Study Program	Undergraduate	Graduate
Mechanical Engineering	3 courses	5 courses
Int. Proj. Engineering	Appr. 15 courses	
Mechatronics	3 lectures+Labs	2 lectures+Labs
	Lab projects for Bachelor and Master students in various areas, 6 ECTS each Lab	
Thesis/Project Opportunities		

- Course catalogue and further information on the website of the School of Engineering
- Generally, exchange students are eligible to choose lectures across different engineering study programs and study levels according to their preferences
- In addition, exchange student may participate in German as a foreign language and foreign language courses as well as intercultural trainings

Thank you very much for your attention!

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