SRH Berlin University of Applied Sciences
Berlin School of Technology

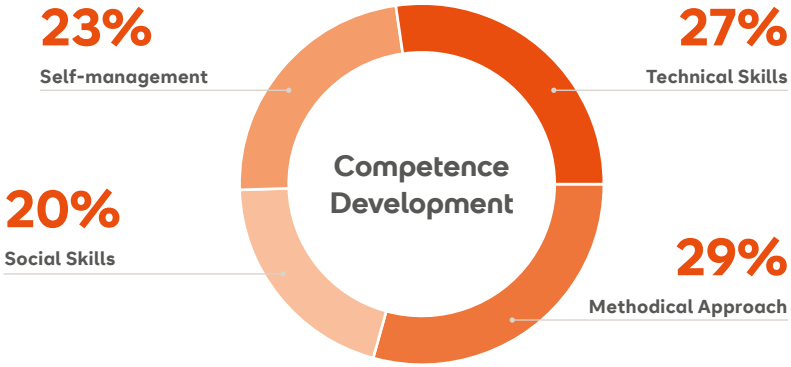
Applied Mechatronic Systems | B.Eng.

Our Unique Curriculum for You

In this Bachelor's programme, you will gain a clear understanding of the relevant disciplines of mechatronics, including mechanical engineering, electrical engineering and computer science. Apart from brushing up necessary skills in mathematics, physics, and statistics, you get to deepen your programming, intercultural, and communication skills. You also receive the "Siemens Mechatronic Systems Certificate Program (SMSCP)" certification at level 1-2.

Competencies and Curriculum

- Mechanical Engineering
- Electronics
- Computer Science
- Industrial Automation
  (PLC incl. SMSCP Level 2)



Semester 1

Mathematics I
Physics
Engineering Drawing and Design
Mechanical Engineering
Programming
Mechatronics Lab / Measurement Techniques I

Semester 2

Mathematics II
Mechatronics Lab / Measurement Techniques II
Electrical and Electronics Engineering
Analogue Electronics
Personal Skills
Advanced Programming

Semester 3

Mathematics III
Language I
Engineering Teamwork I: Applied Computer Science Lab
Microcontrollers
Sensor and Actuator Networks
Automotive Systems and Robotics

Semester 4

Language II
Scientific Work
Statistics
Embedded Systems
Advanced Data Exploration for Artificial Intelligence
Modelling and Simulation

Semester 4

Language II
Scientific Work
Statistics
Embedded Systems
Advanced Data Exploration for Artificial Intelligence
Modelling and Simulation

Semester 5

Language III
Imaging Technologies
Drives and Power Electronics
Artificial Intelligence / Machine Learning
Engineering Teamwork II: Advanced Mechatronics Lab
Siemens Mechatronic Systems Certificate Program (SMSCP) | Level 1

Semester 6

Smart Manufacturing
Internet of Things and Cloud Technologies
Material Science & Construction
Engineering Teamwork III: AI and Autonomous Systems Lab
Engineering Teamwork IV: Embedded Systems Lab
Siemens Mechatronic Systems Certificate Program (SMSCP) | Level 2

Semester 7

Research and Development Methods
Internship / Company Project / Research Project
Bachelor's Thesis

Your Future Career

As a Bachelor of Engineering graduate, you are qualified for challenging jobs in energy and environmental engineering, process engineering, general mechanical and plant engineering, the automotive industry and its suppliers, and the medical devices industry.

Your Success Is Our Mission

- State-accredited programmes recognised worldwide
- Practical approach through internships, case studies, field trips
- Learn from industry professionals
- Interactive and fun learning centred on individual support
- Personal guidance by our Career Service
- "Customise your studies" exclusive offer
- 114 partner universities for exchange semesters abroad
- Students from 100+ countries provide international flair

Financing Your Studies

- EU students have access to 100% financing via "Study Now, Pay Later", solidarity-based initiatives designed to allow equal opportunities for all. Reimbursement starts after graduation and reaching a minimum income threshold.
- Non-EU students can take advantage of student loans/ scholarships in their home country.
- Remarkable students may be considered for our Scholarship Programme and win up to 50% on their year 1 tuition fees.

"Each semester, we bundle everything students learn in hands-on project work called 'Lab Module'. In this way, we provide practical experience right from the start."

Key Facts and Figures

Start
April and October

Duration
3.5 years

Mode
Full time

Credits
210 ECTS

Degree
Bachelor of Engineering

Language
English

Tuition Fees
EU: €690 per month
Non-EU: €4,800 per semester

CORE Principle
Find all information on our CORE Principle here:
www.srh-berlin.de/en/core

Klaus Schwarz
Fachdozent für Mechatronics

Your Bachelor's Programme for Efficient Engineering

Berlin School of Technology

The Berlin School of Technology, located in the west of Berlin, focuses on innovative and interdisciplinary Bachelor's and Master's degrees in the fields of engineering and computer science. The study programmes support the increasing demand in areas such as renewable energy, artificial intelligence and e-mobility. In addition to expert knowledge, you will gain insight into fundamental business operations and the chance to further develop your soft skills. Our programmes also includes various integrated projects, which allow you to directly apply your knowledge and skills in practice.

Entry Requirements

- General higher education entrance qualification (Abitur) or university of applied sciences entrance qualification (Fachhochschulreife)
- Proof of English language proficiency
- Curriculum vitae
- Copy of your passport/ID

Any questions? We're happy to help out. Email us or give us a call.

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www.srh-berlin.de/en

Apply Online Now

Create an account for a smooth online application – it's fast & free.

Date: 01.04.2023. All information and conditions are subject to change.