

Studies with excellent prospects

- innovative courses of study
- practice-oriented curriculum

Successful study

- small study groups
- close contact to professors

Fit for the Job

- Career Service – *career planning*
- THCONNECT – *Wildauer Company contact fair*
- business start-up consultation

Ideal location

- City railway station at the Campus
- only 30 minutes to the city centre of Berlin

Family-friendly university

- Study with a child? No problem! Day-care for children in our kindergarden
- individual help and assistance in all situations
- dynamic campus life: sports, parties, cultural events
- hall of residence directly on the campus

Healthy university

- Diverse health care - and prevention services to ensure healthy studies
- consultant and physician for preventive measures provides advice and information on campus
- Health and campaign days during the semester
- in co-operation with the Techniker Krankenkasse

Postal address

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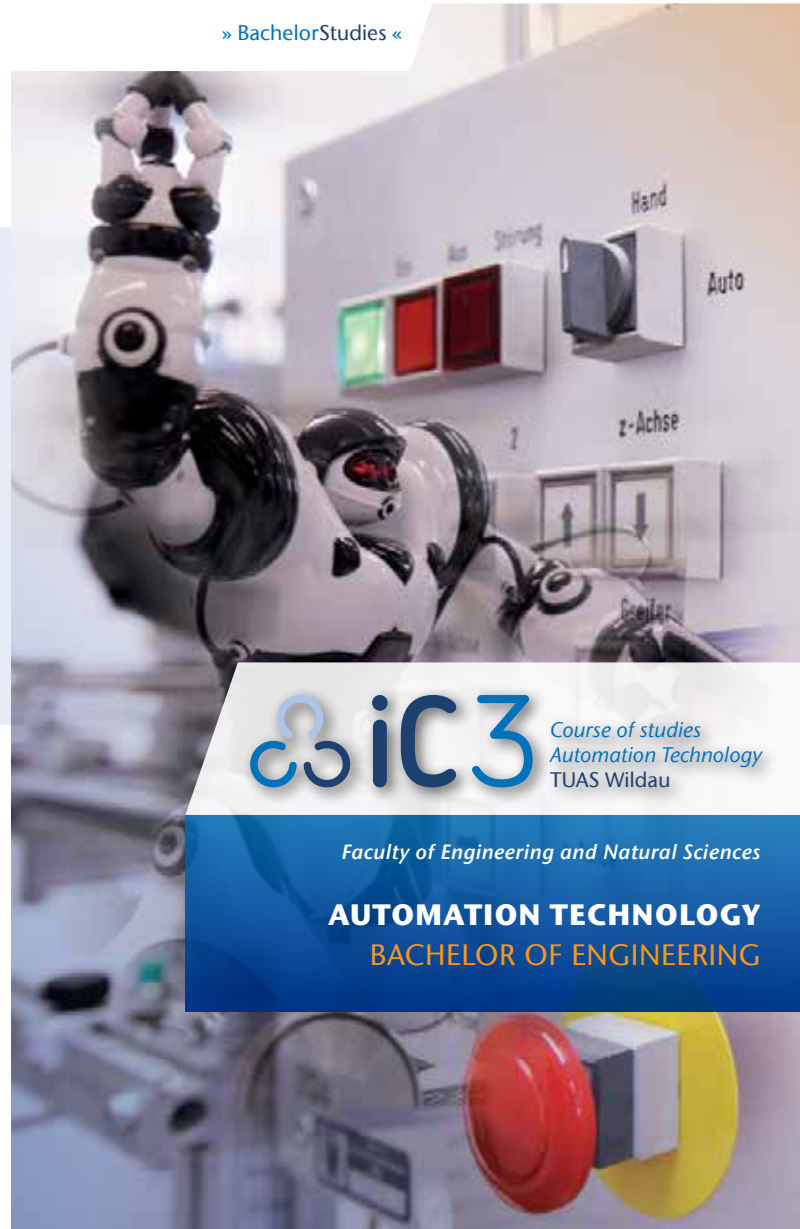
Application & enrollment

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» BachelorStudies «



 **iC3** Course of studies
Automation Technology
TUAS Wildau

Faculty of Engineering and Natural Sciences

AUTOMATION TECHNOLOGY
BACHELOR OF ENGINEERING



AUTOMATION TECHNOLOGY**BACHELOR OF ENGINEERING**

The aim of production-orientated tasks is to design effective and efficient value-added chains. As automation technology is widely used in all fields of industrial applications, it is considered to be a cross-section technology. The Bachelor study programme, Automation Technology, is dominated by the near-net shape design of automated products. The course contents are equally represented from the areas of construction, electrical engineering, information and system technology. This also applies to the questions of production technology. The aim of the study programme is to prepare graduates for a challenging, modern and future-oriented working world. Therefore, independence, holistic thinking in technical and business contexts, teamwork and social skills all play an essential role.

Study objectives

- Fundamental technical basis for the future career
- Specialization in fundamental fields of microtechnical applications and machine technology
- Acquisition of basics about economic activities and project management methods; professional and specialized communication in a foreign language; presentation techniques; social competence; ability to work in a team

Study contents

- Basics of engineering, electrical technology and information technology
- Specialist applications
- Interdisciplinary contents
- Internships and projects, bachelor thesis (final paper)

Course structure and duration

- 1st-3rd and 5th-7th semester: courses
- 4th semester: practical semester
- 7th semester: internship and bachelor-thesis

Degree

- Bachelor of Engineering (B. Eng.)
- Ability to join a Masters course

Career prospects

Future graduates will be able to work in various areas of industrial production. In particular, the interdisciplinary structure of the course promotes multidisciplinary thinking. These skills are needed by the following branches of industry:

- special machine construction (automotive, pharmaceutical)
- machine tool manufacturing
- consumer electronics (domestic, multimedia, toy)
- medical technology
- robotics and microelectronics

Director of Studies**Prof. Dr.-Ing. Jörg Reiff-Stephan**

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BACHELOR COURSE AUTOMATION TECHNOLOGY B. Eng.	WHS	CP	L S La P	TE	WHS							
					1.	2.	3.	4.	5.	6.	7.	
Basics in Engineering												
Mathematics I	6	5	4 2 0 0	ME	6							
Mathematics II	4	5	2 2 0 0	ME		4						
Basics in Mechanics	4	5	2 2 0 0	ME	4							
Manufacturing Technology	6	6	4 1 1 0	ME	6							
Design Basics/CAD	6	5	4 0 2 0	ECS		6						
Materials Engineering	3	5	2 0 1 0	ME		3						
Quality Management	5	5	3 1 1 0	ME						5		
Assembly- and Handling Technology	4	5	2 1 1 0	ECS							4	
Basics in Electronics												
Principles of Electrical Engineering	4	5	2 1 1 0	MEL	4							
Electronics	4	5	2 1 1 0	ECS		4						
Measurement Engineering/Sensorics	4	5	3 0 1 0	MEL	4							
Feedback Control Engineering	6	6	4 1 1 0	ME			6					
Electrical Motion Machines	4	5	2 2 0 0	ME			4					
Pneumatics/Hydraulics	4	5	2 2 0 0	ME			4					
Micro Processor Technology	4	3	3 1 0 0	ECS						4		
Basics in Informatics												
Principles of Informatics	6	5	2 2 2 0	MEL	6							
Software Engineering	4	5	2 1 1 0	MEL		4						
Computer Aided System Analysis	4	5	2 2 0 0	ECS			4					
Control Technology	4	5	2 0 2 0	MEL			4					
Visualization	4	5	2 1 1 0	ECS						4		
Automated Systems	4	5	2 0 0 2	ECS							4	
Advanced Applications												
Module of Specialization I	4	5	2 0 2 0	MEL							4	
Module of Specialization II	4	5	2 2 0 0	ECS							4	
Module of Specialization III	4	5	3 1 0 0	ME							4	
Module of Specialization IV	4	5	2 2 0 0	ME							4	
Specialization „Microtronics“												
I) Labview Programming in Product Development												
II) Assembly of Minimalized Design Parts												
III) Mechatronic Actuators and Sensorics												
IV) Micro Manufacturing Technologies												
Specialization „Machines Technology“												
I) Advanced PLC Programming												
II) Image Processing												
III) Advanced Feedback Control Systems												
IV) Autonomous Systems/AI												
Transdisciplinary Modules												
Project Management	3	4	2 1 0 0	ECS	3							
Communication and Presentation	3	4	2 1 0 0	ECS			3					
Technical English	4	5	2 0 2 0	MEL						4		
Production Organization	4	5	2 2 0 0	ME						4		
Operational Accounting	3	5	2 1 0 0	ECS							3	
Business Law and Leadership of Employees	4	4	2 2 0 0	ECS								4
Total of semester periods per week	131		74 36 19 2			29	25	25	0	24	24	4
Credits teaching	155					30	30	30	0	30	30	5
Credits practical part	35									25		10
Credits thesis	12											12
Credits of the colloquia	8								5			3
Total credits	210					30	30	30	30	30	30	30

The number of module examinations (ME, MEL, ECS) is limited to a maximum of 6 per semester.
Sem. Semester, **CP** Credit Points according to ECTS, **WHS** Weekly hours per semester, **L** Lecture, **S** Seminar,
La Laboratory, **P** Project work, **ME** Module examination, **MEL** Module examination with laboratory,
ECS Examination during the course of study