



List of courses taught in English – 2025/26

Please note:

- The programs have different semester times
- Mixing of courses from different departments can not be accepted.
- Students are asked to take a minimum of 20 ECTS.

Detailed course descriptions can be found here

A) International Engineering Program (IEP) - 3-month-program

- → International Mechanical Engineering Program IMEP Fall only
- → International Electrical Engineering Program IEEP Spring only
- → International Computer Engineering Program ICEP Spring only

B) Full semesterprograms

- → International Semester Program in Energy Economics SPEEC Spring and Fall
- → International Semester Program in Business SPiB Spring and Fall
- → Digital Media Program SPDM Spring and Fall
- → Bachelor Degree Program in Computer Science CTS **Spring and Fall**
- → Bachelor Degree Program in Electrical Engineering EET Spring and Fall
- → Courses offered by different faculties

C) Master-Level Courses taught in English

- → M. Sc. Degree Program in Intelligent Systems Spring and Fall
- → Courses offered by different faculties

D) German Language courses





A) International Engineering Program (IEP) - 3 Month Program

Please note: Semester times are different from our regular semester times.



Department	Title	ECTS credits	Fall semester	Spring semester
/ Study Program			1. Oct - 23. Dec	1. April - 30. June
	Pre-Semester	Intensive Courses		
Mathematics f	or Engineeers	1	Х	
Intensive cour	se: September			
German for Be	eginners 1	2	Х	Х
Intensive Cour	se: September or March			
Ankommen in	Deutschland – Language and Culture	2	Х	Х
(German level	of A2 required)			
Intensive Cour	se: September or March			
	Mechanical and F	Production Engineer	ring	
	CAD/CAM	4	Х	
	Dynamics I	4	X	
	Dynamics II	4	X	
IMEP	Dynamics Computer Lab	2/4	Х	
	Lean Production Systems	4	Х	
	System Automation	4	Х	
	Applied Thermal-Fluid Systems	4	Х	
_	Fluid Mechanics	4	Х	
	Fuel Cell Principles	4	Х	
	Collaborative Product Development (CPD)	4	Х	
	Project Work	6	Х	
	Electrica	l Engineering		
<u> </u>	Digital Integrated Circuits	4		Х
EEP	Control Technology	4		Х
=	EE Advanced Project Work	4		X
	Compute	er Engineering		
	Computer Networks	4		Х
ICEP	Operating Systems	4		Х
<u> </u>	Mobile Application Development	4		Х
	Computer Architecture	4		Х
	Socia	al Sciences		
IMEP	Germany within Europe	4	Х	
IEEP / ICEP	Germany In the last three centuries	4		Х





B) Full Semester programs (Bachelor Level)

Those courses are offered during the German regular semester times, mixing IEP courses and semester program courses is NOT possible. Please note: It is possible that courses may take place at the same time. Students should choose only courses from one department.

Detailed course description

Department / Study Program	Title	ECTS credits	Fall semester (Sept - Feb)	Spring semester (March - July)	Course code / specific infor- mation
· ·	rtment of Production Engine ternational Semester Progra	_			1
D / CDEEC	For some Efficiency	_	V		
P / SPEEC	Energy Efficiency	5	X		
P / SPEEC	Energy Regulation	5	X		
P / SPEEC	Project Management	5	X		
P / SPEEC	Energy Meteorology	5	X		
P / SPEEC and SPiB	Germany within Europe	4	Х		
P / SPEEC and SPiB	Performance Management	5		X	
P / SPEEC	Data Management in Energy Markets	5		X	
P / SPEEC	Seminar in Energy Economics	5		Х	
P / SPEEC and SPiB	Operations Research	5		Х	
P / SPEEC and SPiB	Energy Trading and Risk Management	5		Х	
P / SPEEC and SPiB	Germany in the last three centuries	4		Х	
P / SPEEC	Energy Storage	5		Х	
P / SPEEC	System Automation	4	Х	Х	
P / SPEEC and SPiB	Leadership and Business Communication	5	Х	Х	
P / SPEEC and SPiB	Elements of Complex Systems Simulation	5	Х	Х	
P / SPEEC and SPiB	Energy Project	5	Х	Х	
P / SPEEC and SPiB	Cross-Cultural Management	5	Х	Х	
P / SPiB	Cultural Competence in Theory and Practic	5	Х	Х	
P / SPEEC and SPiB	Sustainability and the Environment	5	Х	Х	
Department / Study Program	Title	ECTS credits	Fall semester	Spring semester	Course code / specific infor-





			(Sept - Feb)	(March - July)	mation
P / Industrial Engineering	Distribution Logistics	6 (4)	Х	X	
P / Industrial Engineering	Enterprise Information	4	X	X	
1 / madstriar Engineering	Systems	7		,	
P / Production Engineering	Advanced Project	5-10	Х	Х	
Сотр	Department of Cuter Science: Complete Bachel	=		ı English - CTS	5
1. Semester courses:					
	Linear Algebra	5	Х		
	Introduction to Computer	5	Х		
	Science				
	Programming 1	5	Х		
	Technical Foundations of	5	Х		
	Computer Science				
2. Semester courses			•	•	·
	Calculus 1	5		Х	
	Programming 2	5		Х	
	Computer Networks	5		X	
	Databases	5		Х	
	Microcomputer	5		Х	
	Technology				
3. Semester courses				Ī	
	Calculus 2	5	Х		
	Programming 3	5	Х		
	The small control of	_			
	Theoretical Computer Science	5	Х		
4. Semester courses	Science		1		
4. Jemester Courses	Software Engineering	5		Х	
	Operating systems	5		X	
	Algorithms and Data	5		X	
	Structures	,			
	Stochastic	5		Х	
5. Semester courses	2.30.103.10		ı		1
	Seminar	5	Х		
	Distributed & Webbased	5	Х		
	Systems				
	Caffeerana During	_	.,	<u> </u>	1

Department	Title	ECTS	Fall	Spring	Course code /
/ Study Program		credits	semester	semester	specific infor-

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Software Project

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					mation
			(Sept - Feb)	(March - July)	
6. Semester courses			•		
	Business Economics	5		Х	
Special Subjects / Electives:					
3. Semester	Digital Systems	5	X		admission restricted
3. Semester	Embedded Systems	5	X		admission restricted
3. Semester	Information Security	5	Х		admission restricted
3. Semester	Mobile Application	5	Х	Х	admission restricted
	Development				
3. Semester	Computer Graphics	5	Х		admission restricted
4. Semester	Deep Learning for	5		Х	admission restricted
	Computer Vision				
4. Semester	Scientific Computing	5	Х	Х	admission restricted
4. Semester	Realtime Systems	5		Х	admission restricted
4. Semester	Digital Forensics	5		Х	admission restricted
4. Semester	Web Engineering	5		Х	admission restricted
5. Semester	Game Programming	5	Х		admission restricted
5. Semester	Computer Architecture	5		Х	admission restricted
5. Semester	Multicore Systems	5	Х		admission restricted
	Programming and				
	Performance				
5. Semester	Autonomous Systems	5	Х		admission restricted
5. Semester	Pentesting	5	Х		admission restricted
5. Semester	Internet of Things	5	Х		admission restricted
I / Data Sciences in Medicine	Project Work		Х		
	Machine Learning	5	Х		admission restricted Please ask for Pre- requisites
I / Business information Systems	Database Programming	5		Х	Please ask for Pre- requisites
I / Business information Systems	Business Analytics	5		X	admission restricted Please ask for Pre- requisites





Department	Title	ECTS	Fall	Spring	Course code /
/ Study Program		credits	semester	semester	specific infor- mation
			(Sept - Feb)	(March - July)	mation
E De	partment of Electrical Engine	ering and	Information T	echnology	
Electrical Engineering	and Information Technology:	: Complete	Bachelor Prog	ram is offere	d in English – EET
1. Semester courses:					
	Digital Technology 1	5	X		
	Electrical Engineering 1	6	X		
	Programming 1	6	Х		
	Mathematical Basics	6	Х		
	Physics 1	6	Х		
2. Semester courses:					
2. Jemester Courses.	Digital Technology 2	4		Х	
	Electrical Engineering 2	5		Х	
	Programming 2 incl. Project Work	6		Х	
	Mathematics for Electrical Engineering 1	6		Х	
	Physics 2	5		Х	
	Communication Technology	4		Х	
3. Semester courses:					
	Mathematics for Electrical Engineering 2	5	х		
	Systems Theorie	5	х		
	Electronics	5	х		
	Computer Technology	5	х		
	Wired Communications	5	Х		
I	Digital Media - open for enro	llment ON	LY for design s	tudents	
E / Digital Media Program	Project in Interaction Design 1	10	X		
E / Digital Media Program	Project in Computer Graphics	4		Х	
E / Digital Media Program	Project in Interaction Design 2	5		Х	
E / Digital Media Program	Programming 1	5	Х		

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Department of Medical Engineering and Mechatronics						
T / Mechatronics / Medical	Microcontroller	5	Χ	Х	89500	
Engineering	Applications					
T / Medical Engineering	Technical Security in	5		Х	91100	
	Medicine					
T / Mechatronics / Medical	Advanced Project	10	Х	Х		
Engineering						

C) Master-Level Courses taught in English

Department / Study Program	Title	ECTS credits	Fall semester	Spring semester
			(Sept - Feb)	(March - July)
I / Master Intelligent	Complete M. Sc Program is offered in	90	X	X
Systems	English			
https://www.thu.de/de/o	rg/rek/Downloads/Modulhandbuch ISY en.pd	[;	ı	
E / Master SYE and	Numerical Optimization	6		Х
SYE intl. resp.				
E / Master SYE and	Physical Methods	6		X
SYE intl. resp.				
E / Master SYE and	Modeling of Technical Systems	6		X
SYE intl. resp.				
E / Master SYE and	Model-Based Systems Development	6		X
SYE intl. resp.				
T / Master SY	Navigation for Medical Interventions	6	Х	
P / Master SY	Supply Network Performance	5	Х	
Industrial Engineering	Management			
P / Master SY	Quantitative Planning Methods	5		X
Industrial Engineering				
G / Institute of foreign	International Business	5	Х	X
Language and				
Management				

D) German Language courses

Department	Title	ECTS	Fall Semester	Spring Semester
Institute for foreign	German for Beginners 1 - Intensive	2	Х	Х
Languages	Course September or March			

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Institute for foreign	Ankommen in Deutschland –	2	Х	Х
Languages	Language and Culture (Previous			
	knowledge of A2 required)			
	Intensive Course September or			
	March			
Institute for foreign	German Beginners Level 1	2	Χ	X
Languages				
Institute for foreign	German Beginners Level 2	3	Χ	X
Languages				
Institute for foreign	German Beginners Level 3	5	Χ	X
Languages				
Institute for foreign	German Beginners Level 4	5	Χ	X
Languages				
Institute for foreign	German intermediate Level 1	5	Х	Х
Languages				
Institute for foreign	German intermediate Level 2	5	Х	Х
Languages				