



List of courses taught in English – 2020/21 (Spring 2021)

THU is offering a variety of courses taught in English. Please note that the programs have different semester times

Academic Calendar		
International Engineering Programs	Fall semester:	IMEP: October – December + free
IMEP, ICEP and IEEP		intensive German course in September
(3-month-program)	Exams:	Mid-December
	Spring semester:	ICEP + IEEP: April - June + free intensive
		German course in March
		(Possibility for IEEP students to stay for a
		laboratory project in July)
	Exams:	last week of June
	Holidays:	2 weeks in May/June (Pentecost)
Regular Semester Programs	Fall semester	
	Start:	Beginning of October
	Holidays:	2 weeks in Dec/Jan (Christmas)
	Exams:	first 2 weeks of February
	Spring semester	
	Start:	Beginning of March
	Holidays:	2 weeks in May/June (Pentecost)
	Exams:	last 2 weeks of July

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

- → International Mechanical Engineering Program IMEP
- → International Electrical Engineering Program IEEP
- → International Computer Engineering Program ICEP

B) Full semester programs

- → International Semester Program in Energy Economics SPEEC
- → International Semester Program in Business SPiB
- → Digital Media Program SPDM
- → Bachelor Degree Program in Computer Science SPCTS
- → Courses offered by different faculties

C) Master-Level Courses taught in English

- → M. Sc. Degree Program in Information Systems
- → M. Eng. Degree Program in Medical Devices Research and Development
- → 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. Detailed course description: www.thu.de/internationals (Downloads)



Department / Study	Lecturer	Title	ECTS credits	Fall	Spring semester
Program			credits	semester	semester
110814111				1. Oct -	1. April -
				23. Dec	30. June
		Production Engineering / IMEP			
	Peranio	Mathematics for Engineeers (Intensive course September)	1	Х	
	t.b.a.	German for Beginners 1 (Intensive Course September)	2	Х	
	t.b.a.	Ankommen in Deutschland – Language and Culture (Previous knowledge of A2 required) (Intensive Course September)	2	Х	
IMEP	Wehrheim / Böhm	CAD/CAM	4	Х	
Σ	Beckmann	Dynamics I	4	Х	
_	Beckmann	Dynamics II 4		Х	
	Hüser / Hartberger	Lean Production Systems	4	Х	
	Commerell	System Automation	4	Х	
	Renze	Applied Thermal-Fluid Systems	4	Х	
	Arlitt	Fluid Mechanics	4	Х	
	Kabza	Fuel Cells	4	Х	
	Watty	Collaborative Product Development (CPD)	4	Х	
		Electrical Engineering / IEEP			
	Terzis	Digital Integrated Circuits	4		Х
<u>م</u>	Beckmann	Control Technology	4		Х
IEEP	Professors of EE Department	EE Advanced Project Work	4		Х
		Computer Engineering / ICEP			
	Steiper	Computer Networks	4		Х
بي	Frey	Machine Vision	4		X
ICEP	Traub	Operating Systems	4		X
_	Strahnen	Computer Architecture	4		Х
	1	Social Sciences	1	1	1
IMEP	McLeod	Germany within Europe	4	Х	
I / ICEP and E / IEEP	Kratzer	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 <u>one</u> department.

Detailed course description of SPEEC and SPiB: www.thu.de/internationals (Downloads)

Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semester (March - July)	Course code / specific infor- mation
· ·		ion Engineering an ster Program in Ene			•	
P / SPEEC – Block 1*	Otto/Schlüter	Operations Research	5	X	Х	
P / SPEEC – Block 1*	Gaisbauer- Pointner	Performance Management	5	Х	Х	CKLM
P / SPEEC – Block 1*	Herbort	Analytics for Energy Data	5	Х	Х	AFED
P / SPEEC – Block 1*	Kleiser	Energy Efficiency	5	Х	Х	
P / SPEEC – Block 1*	Böhm	Power Plant Technology	5	Х	Х	KRAT
P / SPEEC – Block 2*	Otto	Energy Trading and Risk Management	5	Х	Х	ETRM
P / SPEEC – Block 2*	Heilscher	Energy Data Management	5	Х	Х	EDAT
P / SPEEC – Block 2*	Otto / Heilscher	Seminar in Energy Economics	5	Х	Х	
P / SPEEC – Block 2*	Iniotakis	Simulation	5	Х	Х	
P / SPEEC – Block 1 + 2*	Heilscher / Arlitt	Energy Meteorology	5	Х		
P / SPEEC – Block 1 + 2*	Gaisbauer- Pointner	Intercultural Communication	2	Х	Х	
P / SPEEC – Block 1 + 2*	Dippe	Leadership and Business Communication	5	Х	Х	
P / SPEEC – Block 1 + 2*	All professors	Project in Energy Economics	10	Х	Х	

^{*}students should choose either Block 1 or 2 to avoid overlappings of courses





Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semes-ter (March - July)	Course code / specific information
P De	epartment of Product International S	ion Engineering an Gemester Program i			cs /	
P / SPiB	Gaisbauer- Pointner	Performance Management and Cost Accounting	5	Х	Х	See prerequi- sites
P / SPiB	Dippe	Leadership and Business Communication	5	Х	Х	
P / SPiB	Cürten	Cross Cultural Management	5	Х	Х	
P / SPiB	Gaisbauer- Pointner	Sustainability and the Environment	5		Х	
P / SPiB	Otto / Schlüter	Operations Research	5	Х	Х	
P / SPiB	Otto	Energy Trading and Risk Management	5	Х	Х	
P / SPiB	Iniotakis	Simulation	5	Х	Х	
P / SPiB	McLeod	Germany within Europe	4	Х		
P / SPiB	Kratzer	Germany within the last three centuries	4		Х	
P / SPiB	Gaisbauer- Pointner	Intercultural Communication	2	Х	Х	
P / SPiB	All professors	Project in Energy Economics	10	X	Х	





Department						
/ Study Program	Lecturer	Title	ECTS credits	Fall semester	Spring semes-ter	Course code / specific infor-
				(October - February)	(March - July)	mation
P Depart	tment of Produ	uction Engineering a	nd Produc	ction Econom	ics	
P / Production Engineering	Baumgärtel	Distribution Logistics	6 (4)	Х	Х	
P / Production Engineering	Westhoff / Baumgärtel	Business Information Systems	4	Х	Х	
P / Production Engineering	Heilscher / Arlitt	Energy Meteorology	5	Х		
P / Production Engineering	Commerell	System Automation	4	Х	Х	
P / Production Engineering	Commerell	Energy Storages	4	Х	Х	
P / Production Engineering	t.b.a.	Advanced Project	5-10	Х	Х	
	-	artment of Compute				
·	-	artment of Compute Complete Bachelor Pr		ffered in Englis	sh	
1. Semester courses:	mputer Science:	Complete Bachelor Pr	ogram is o		sh	
·	-	Calculus 1 Introduction to Computer		ffered in Englis	sh	
·	Groß Steiper	Calculus 1 Introduction to Computer Science	ogram is o	X	sh	
·	Groß Steiper Kratzer	Calculus 1 Introduction to Computer Science Programming 1	ogram is o	X X	sh	
·	Groß Steiper	Calculus 1 Introduction to Computer Science Programming 1 Technical Foundations of Computer	ogram is o	X	sh	
1. Semester courses:	Groß Steiper Kratzer	Calculus 1 Introduction to Computer Science Programming 1 Technical Foundations of	ogram is o	X X	sh	
·	Groß Steiper Kratzer	Calculus 1 Introduction to Computer Science Programming 1 Technical Foundations of Computer Science	5 5 5 5	X X	Sh	
1. Semester courses:	Groß Steiper Kratzer Frey	Calculus 1 Introduction to Computer Science Programming 1 Technical Foundations of Computer	ogram is o	X X		
1. Semester courses:	Groß Steiper Kratzer Frey Groß	Calculus 1 Introduction to Computer Science Programming 1 Technical Foundations of Computer Science Linear Algebra	5 5 5 5 5 5	X X	X	
1. Semester courses:	Groß Steiper Kratzer Frey Groß Kratzer	Calculus 1 Introduction to Computer Science Programming 1 Technical Foundations of Computer Science Linear Algebra Programming 2 Computer	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	X X	X	

International Office





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Department	Lecturer	Title	ECTS	Fall	Spring	Course
/ Study Program			credits	semester	semes-ter	code /
				(0.1		specific
				(October -	(March -	infor-
2.6				February)	July)	mation
3. Semester courses	I - 0	1		1	1	T
	Groß	Calculus 2	5	X		
	Baer	Programming 3	5	X		
	Schied	Theoretical	5	X		
		Computer				
		Science				
4. Semester courses	Τ_	1 - 4	1 _	1	T	<u> </u>
	Baer	Software	5		X	
		Engineering				
	Traub	Operating	5		X	
		systems	_			
	Schied	Algorithms and	5		X	
		Data Structures				
	Groß	Stochastic	5		X	
5. Semester courses	1		1	1	1	T
	NN	Seminar	5	X		
	Schäffter	Distributesd &	5	Х		
		Webbased				
		Systems				
	NN	Software Project	5	Х		
6. Semester courses	1		1		_	
	Dippe	Business	5		X	
		Economics				
Special Subjects / Electives:	T		1	1	_	T
3. Semester	Frey	Digital Systems	5	X		admission
3. Semester	Ctrahnan	Embaddad	_			restricted admission
J. Jemester	Strahnen	Embedded	5	X		restricted
3. Semester	Colosiffton	Systems	5	X		admission
3. Semester	Schäffter	Information	5	^		restricted
		Security				
3. Semester	Cust	Management	_			admission
5. Semester	Graf	Mobile	5	X		restricted
		Application				
2 Competer	E	Development	_			admission
3. Semester	Frey	Machine Vision	5	X		restricted
4. Semester	Frey	Hardware	5	1	Х	admission
	'	oriented				restricted
		Programming				
4. Semester	Schlegel	Realtime Systems	5	1	Х	admission
	2.2200.		Ĭ.			restricted
4. Semester	Schäffter	Digital Forensics	5		X	admission





Department	Lecturer	Title	ECTS	Fall	Spring	Course
/ Study Program			credits	semester	semes-ter	code / specific
				(October -	(March -	infor-
				February)	July)	mation
4. Semester	Traub/Buchen scheit	Web Engineering	5	Х	Х	admission restricted
4. Semester	Hasbargen	Game Programming	5		X	admission restricted
4. Semester	Strahnen	Multicore Systems Programming and Performance	5		Х	admission restricted
5. Semester	Strahnen	Computer Architecture	5	Х		admission restricted
5. Semester	Schlegel	Autonomous Systems	5	X		admission restricted
5. Semester	Schäffter	Pentesting	5	Х		admission restricted
5. Semester	Steiper	Adhoc & Sensor Networks	5	X		admission restricted
5. Semester	Franz	Computer Graphics	5	X		admission restricted
I / Business information Systems	Herbort	Database Programming	5	X	X	Please ask for Pre- requisites
I / Business information Systems	Goldstein	Data Warehousing	5	X	Х	admission restricted Please ask for Pre- requisites
I / Data Science in Medicine	Vögel	Medical Information Systems	5	X	X	
T D	epartment of N	Medical Engineering	and Med	chatronics		
T / Mechatronics / Medical Engineering	Groß/ Blechschmidt	Microcontroller Applications	5	Х	Х	89500
T / Medical Engineering	Blechschmidt	Technical Security in Medicine	5		Х	91100
T / Mechatronics / Medical Engineering	t.b.a.	Advanced Project	10	Х	Х	





Department / Study Program	Lecturer	Title	ECTS credits	Fall semester	Spring semes-ter	Course code /
				(October - February)	(March - July)	specific infor- mation
- ·		rical Engineering and I pen for enrollment ON		•	/	
E / Digital Media Program	Radtke	Corporate Design	8	Х		
E / Digital Media Program	Götz	Ergonomics / Universal Design	5	Х	Х	
E / Digital Media Program	Gaida	Image Conception	5	Х		
E / Digital Media Program	Gerbaulet	Interaction Design 1	10	Х		
E / Digital Media Program	Kruse	Motion Capturing	5	Х	Demand necessary	
E / Digital Media Program	Radtke	Color Design	5		Х	
E / Digital Media Program	Hofmann	Computer Graphics	7		Х	
E / Digital Media Program	Radtke	E-Learning	8		Х	
E / Digital Media Program	Gaida	Photography	7		Х	
E / Digital Media Program	Gerbaulet	Interaction Design 2	5		Х	
E / Digital Media Program	Radtke	Typography	5		X	
E / Digital Media Program	Radtke	2D-Animation	5	Х		
E / Digital Media Program	Radtke	Type in Motion/Signs Go Global	5		Х	
E / Digital Media Program	Lunde	Programming 1 Programming 2	5 5	Х	Х	





C) Master-Level Courses taught in English

Department / Study Program	Lecturer	Title	ECTS credits	Fall Semester (October - February)	Spring Semester (March - July)
I / Master Intelligent Systems	in English	Program is offered	90	X	X
https://studium.hs-ulm.de/en/P	ages/Studiengang	IS.aspx?SearchCategor	<u>y=Master;</u>		
T / Medical Devices - Research and Development	Complete M. En offered in Englis		90	X	X
https://studium.hs-ulm.de/de/S	eiten/Studiengang	MMD.aspx?SearchCate	egory=Maste	er;	
E / Master SYE and SYE intl. resp.	Hartmann / Weiss	Numerical Optimization	6		Х
E / Master SYE and SYE intl. resp.	Mantz / Moisel	Physical Methods	6		Х
E / Master SYE and SYE intl. resp.	Bank / Commerell	Modeling of Technical Systems	6		Х
E / Master SYE and SYE intl. resp.	Bank	Model-Based Systems Development	6		х
E / Master SYE and SYE intl. resp.	M. von Schwerin / Schlick	Embedded Systems	6		х
P / Master SY Logistics	Baumgärtel	Supply Network Performance Management	5	Х	
P / Master SY Logistics	Baumgärtel	Quantitative Planning Methods	5		Х
G / Institute of foreign Language and Management	Dippe	International Business (Master- Program)	5	Х	Х





D) German Language courses

Department	Title	ECTS	Fall Semester	Spring Semester
G / Institute of foreign Language and Management (IFM)	German for Beginners 1 - Intensive Course September	2	Х	
G / Institute of foreign Language and Management (IFM)	Ankommen in Deutschland – Language and Culture (Previous knowledge of A2 required) Intensive Course September	2	Х	
G / Institute of foreign Language and Management (IFM)	German for Beginners 1 - Intensive Course March	2		Х
G / Institute of foreign Language and Management (IFM)	Ankommen in Deutschland Intensive Course March	2		Х
G / Institute of foreign Language and Management (IFM)	German Beginners Level 1	2	Х	Х
G / Institute of foreign Language and Management (IFM)	German Beginners Level 2	3	Х	Х
G / Institute of foreign Language and Management (IFM)	German Beginners Level 3	5	Х	Х
G / Institute of foreign Language and Management (IFM)	German Beginners Level 4	5	Х	Х
G / Institute of foreign Language and Management (IFM)	German intermediate Level 1	5	Х	Х
G / Institute of foreign Language and Management (IFM)	German intermediate Level 2	5	Х	Х