



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

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
- ightarrow 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.hs-ulm.de/internationals (Downloads)



Department	nt Lecturer Title		ECTS	Fall	Spring
/ Study			credits	semester	semester
Program					
				1. Oct - 23. Dec	1. April - 30. June
				23. Dec	50. Julie
		Production Engineering / IMEP			
	Peranio	Mathematics for Engineeers	1	Х	
		(Intensive course September)			
	t.b.a.	German for Beginners 1 (Intensive	2	X	
		Course September)			
	t.b.a.	Ankommen in Deutschland –	2	X	
		Language and Culture (Previous			
		knowledge of A2 required)			
•		(Intensive Course September)			
IMEP	Wehrheim / Böhm	CAD/CAM	4	X	
≥	Beckmann	Dynamics I 4		X	
_	Beckmann	Dynamics II	Dynamics II 4		
	Hüser / Hartberger	Lean Production Systems	4	X	
	Commerell	System Automation	4	X	
	Renze	Applied Thermal-Fluid Systems	4	X	
	Arlitt	Fluid Mechanics	4	X	
	Kabza	Fuel Cells	4	X	
	Watty	Collaborative Product	4	X	
		Development (CPD)			
		Electrical Engineering / IEEP			
	Terzis	Digital Integrated Circuits	4		Х
EEP	Beckmann	Control Technology	4		Х
Ë	Professors of EE	EE Advanced Project Work	4		Х
	Department	·			
		Computer Engineering / ICEP			
	Schäffter	Computer Networks	4		Х
<u>ط</u>	Frey	Machine Vision	4		Х
ICEP	Hering / Steiper	Operating Systems	4		Х
_	Strahnen	Computer Architecture	4		Х
		Social Sciences	•	•	•
IMEP	McLeod	Germany within Europe	4	X	
I / ICEP and E	Kratzer	Germany In The Last Three	4		X
/ IEEP		Centuries	'		





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.hs-ulm.de/internationals (Downloads)

Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semester (March - July)	Course code / specific information
-		tion 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*	Cürten	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			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	See prerequi- sites
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	Cürten	Intercultural Communication	2	Х	Х	
P / SPiB	All professors	Project in Energy Economics	10	Х	Х	





Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semes-ter (March - July)	Course code / specific infor- mation
P Depart	tment of Produ	iction Engineering a	nd Produc	tion Econom	ics	
P / Production Engineering	Baumgärtel	Distribution Logistics	6 (4)	Х	Х	
P / Production Engineering	Stöhler	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	-	Advanced Project artment of Compute Complete Bachelor Pr		X	X	
1	Depa	,	r Science			
l / Cor	Depa	artment of Compute	r Science			
l / Cor	Depa mputer Science:	artment of Compute Complete Bachelor Pr	r Science ogram is o	ffered in Englis		
l / Cor	Depa mputer Science:	Complete Bachelor Pr Linear Algebra Introduction to Computer	r Science ogram is o	ffered in Englis		
l / Cor	Depa mputer Science: Groß Steiper	Linear Algebra Introduction to Computer Science	r Science ogram is o	ffered in Englis		
l / Cor	Depa mputer Science: Groß Steiper	Linear Algebra Introduction to Computer Science Programming 1 Technical Foundations of Computer	r Science ogram is o	ffered in Englis X X		
1. Semester courses:	Depa mputer Science: Groß Steiper	Linear Algebra Introduction to Computer Science Programming 1 Technical Foundations of Computer	r Science ogram is o	ffered in Englis X X		
1. Semester courses:	Depa mputer Science: Groß Steiper Kratzer Frey	Linear Algebra Introduction to Computer Science Programming 1 Technical Foundations of Computer Science	r Science ogram is o	ffered in Englis X X	sh	
1. Semester courses:	Deparement of the second of th	Linear Algebra Introduction to Computer Science Programming 1 Technical Foundations of Computer Science Calculus 1	r Science ogram is o	ffered in Englis X X	sh X	
1. Semester courses:	Depa mputer Science: Groß Steiper Kratzer Frey Groß Kratzer	Linear Algebra Introduction to Computer Science Programming 1 Technical Foundations of Computer Science Calculus 1 Programming 2 Computer	r Science ogram is o	ffered in Englis X X	x X	

International Office





Department / Study Program	Lecturer	Title	ECTS credits	Fall semester	Spring semes-ter	Course code / specific
				(October - February)	(March - July)	infor- mation
3. Semester courses	•				-	
	Otto	Calculus 2	5	Х		
	Baer	Programming 3	5	X		
	Schied	Theoretical Computer Science	5		Х	
4. Semester courses		Science				
	Baer	Software Engineering	5		Х	
	Traub	Operating systems	5		Х	
	Schied	Algorithms and Data Structures	5		Х	
	Groß	Stochastic	5		Х	
5. Semester courses						
	NN	Seminar	5	Х		
	Schäffter	Distributesd & Webbased	5	Х		
	NN	Systems Software Project	5	X		
6. Semester courses	1414	301tware 110jeet		Λ		
o. semester courses	Dippe	Business	5		Х	
	2.660	Economics				
Special Subjects / Electives:	I					I
3. Semester	Frey	Digital Systems	5	X		admission restricted
3. Semester	Strahnen	Embedded Systems	5	Х		admission restricted
3. Semester	Schäffter	Information Security Management	5	X		admission restricted
3. Semester	Graf	Mobile Application Development	5	Х		admission restricted
3. Semester	Frey	Machine Vision	5	Х		admission restricted
4. Semester	Frey	Hardware oriented Programming	5		Х	admission restricted
4. Semester	Schlegel	Realtime Systems	5		Х	admission restricted
4. Semester	Schäffter	Digital Forensics	5		Х	admission restricted





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	Web Engineering	5	Х	Х	admission
	scheit					restricted
4. Semester	Hasbargen	Game	5		Х	admission
		Programming				restricted
5. Semester	Strahnen	Computer	5	Х		admission
		Architecture				restricted
5. Semester	Schlegel	Autonomous	5	Х		admission
		Systems				restricted
5. Semester	Schäffter	Pentesting	5	х		admission
	Scharter	rentesting				restricted
5. Semester	Steiper	Adhoc & Sensor	5	Х		admission
		Networks				restricted
5. Semester	Franz	Computer	5	Х		admission
		Graphics				restricted
I / Business information	Herbort	Database	5	Х	Х	Please ask
Systems		Programming				for Pre-
			_	.,	.,	requisites
I / Business information	Goldstein	Data	5	Х	X	admission restricted
Systems		Warehousing				Please ask
						for Pre-
						requisites
I / Data Science in Medicine	Vögel	Medical	5	Х	X	
		Information				
		Systems				
T c	epartment of N	/ledical Engineering	and Med	hatronics		
-	-					
T / Mechatronics	Kern	Problem solving	5		Х	92700
,		in mech.				32700
		Engineering				
		Liigineering				
T / Mechatronics / Medical	Groß/	Microcontroller	5	Х	Х	89500
Engineering	Blechschmidt	Applications				05500
T / Medical Engineering	Blechschmidt	Technical Security	5		Х	91100
i / Micaicai Liigiliceiliig	Dicensellinat	in Medicine			^	31100
T / Mechatronics / Medical	t.b.a.	Advanced Project	10	X	Х	
-	L.D.d.	Auvanceu Project	10	^	_ ^	
Engineering				1		





Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semes-ter (March - July)	Course code / specific information
M	epartment of I	Mechanical and Auto	omotive E	ngineering		
M / Mechanical Engineering	Niebergall	Mobile Hydraulics	5	X		
E D		rical Engineering and I pen for enrollment ON	LY for desi	gn students	<i>,</i>	
E / Digital Media Program	Götz	Corporate Design	8 5	X	X	
E / Digital Media Program		Ergonomics / Universal Design			X	
E / Digital Media Program	Gaida	Image Conception	5	X		
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		Х	
E / Digital Media Program	Radtke	2D-Animation	5	Х		
E / Digital Media Program	Radtke	Type in Motion/Signs Go Global	5		X	
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 Information Systems https://studium.hs-ulm.de/en/P	in English	Program is offered	90	X	X
T / Medical Devices - Research and Development https://studium.hs-ulm.de/en/P	Complete M. Er offered in Engli	ng. Program is sh	90	X ;	Х
T / Medical Devices (Master)	Munz	Scientific Computing	6	Х	
T / Medical Devices (Master)	Munz	Software for Medical Devices	6		Х
T / Medical Devices (Master)	Munz	Image Analysis and Machine Learning	6		Х
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 SYI Logistics	Baumgärtel	Supply Network Performance Management	5	Х	
P / Master SYI 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	X	
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