



List of courses taught in English – 2022/23 (Spring 2023)

THU is offering a variety of courses taught in English. Please note that the programs have different semester times Detailed course description: https://studium.hs-ulm.de/en/org/aaa/Pages/ExchangePrograms.aspx

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
	<u> </u>	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:	End of September
	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 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 SPCTS 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					
	Mechanical and Production Engineering / IMEP								
	Mathematics for Engineeers (Intensive	1	Х						
	course September)								
	German for Beginners 1 (Intensive Course September)	2	X						
	Ankommen in Deutschland – Language	2	Х						
	and Culture (Previous knowledge of A2	_	^						
	required) (Intensive Course September)								
	CAD/CAM	4	Х						
ο.	Dynamics I	4	X						
IMEP	Dynamics II	4	X						
≥	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 Cells	4	Х						
	Collaborative Product Development (CPD)	4	Х						
	Electrical Eng	gineering / IEEP							
Δ.	Digital Integrated Circuits	4		Х					
IEEP	Control Technology	4		Х					
	EE Advanced Project Work	4		X					
	Computer En	gineering / ICEP							
	Computer Networks	4		Х					
<u>a</u>	Operating Systems	4		Х					
ICEP	Mobile Application Development	4		Х					
	Computer Architecture	4		Х					
	Social	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 <u>one</u> department.

Detailed course description of SPEEC and SPiB:

https://studium.hs-ulm.de/en/org/aaa/Pages/ExchangePrograms.aspx

Department / Study Program	Title	ECTS credits	Fall semester	Spring semester	Course code / specific infor- mation
			(Sept - Feb)	(March - July)	
	artment of Production Engine nternational Semester Progra				/
P / SPEEC	Analytics for Energy Data	5	Х		
P / SPEEC	Energy Efficiency	5	Х		
P / SPEEC and SPiB	Statistics	5	Х		
P / SPEEC	Energy Regulation	5	Х		
P / SPEEC	Project Management	5	Х		
P / SPEEC	Energy Meteorology	5	Х		
P / SPEEC and SPiB	Performance Management	5	Х		
P / SPEEC and SPiB	Germany within Europe	4	Х		
P / SPEEC	Data Management in Energy Markets	5		Х	
P / SPEEC	Seminar in Energy Economics	5		Х	
P / SPEEC and SPiB	Operations Research	5		Х	
P / SPEEC and SPiB	Simulation	5		Х	
P / SPEEC and SPiB	Energy Trading and Risk Management	5		Х	
P / SPEEC and SPiB	Germany within the last three centuries	4		Х	
P / SPEEC	Energy Storage	5		Х	
P / SPEEC and SPiB	Leadership and Business Communication	5	Х	Х	
P / SPEEC and SPiB	Energy Project	5	Х	Х	
P / SPiB	Cross Cultural Management	5	Х	Х	
P / SPiB	Sustainability and the Environment	5	Х	Х	





Department	Title	ECTS	Fall	Spring	Course code /
/ Study Program		credits	semester	semester	specific infor-
					mation
			(Sept - Feb)	(March -	
P / Production Engineering	Distribution Logistics	6 (4)	X	July) X	
P / Production Engineering	Business Information	4	X	X	
. ,	Systems				
P / Production Engineering	System Automation	4	Х	Х	
P / Production Engineering	Advanced Project	5-10	X	X	
,			L	l	
•	Department of C	Compute	r Science		
I / Co	mputer Science: Complete Ba	-		ed in English	
,				0	
1. Semester courses:					
	Linear Algebra	5	Χ		
	Introduction to Computer	5	Х		
	Science				
	Programming 1	5	X		
	Technical Foundations of	5	X		
	Computer Science				
2. Semester courses		1	T		T
	Calculus 1	5		Х	
	Programming 2	5		X	
	Computer Networks	5		Х	
	Databases	5		Х	
	Microcomputer	5		Х	
	Technology				
3. Semester courses		T	T	1	T
	Calculus 2	5	X		
	Programming 3	5	X		
	Theoretical Computer	5	X		
	Science				
4. Semester courses					
	Software Engineering	5		Х	
	Operating systems	5		Х	
	Algorithms and Data	5		Х	
	Structures				
	Stochastic	5		Х	
5. Semester courses					
	Seminar	5	X		
	Distributesd & Webbased	5	X		
	Systems				

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Software Project

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16.08.2022

Department / Study Program	Title	ECTS credits	Fall semester (Sept - Feb)	Spring semester (March - July)	Course code / specific infor- mation
6. Semester courses					_
	Business Economics	5		X	
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 Development	5	Х		admission restricted
3. Semester	Machine Vision	5	Х		admission restricted
4. Semester	Hardware oriented Programming	5		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	Х	admission restricted
4. Semester	Game Programming	5		Х	admission restricted
5. Semester	Computer Architecture	5	Х		admission restricted
5. Semester	Autonomous Systems	5	Х		admission restricted
5. Semester	Pentesting	5	Х		admission restricted
5. Semester	Internet of Things	5	Х		admission restricted
5. Semester	Computer Graphics	5	Х		admission restricted
I / Data Sciences in Medicine	Clinical Trials	5		Х	
I / Data Sciences in Medicine	Project Work		Х	Х	
I / Business information Systems	Database Programming	5	Х	Х	Please ask for Pre- requisites
I / Business information Systems	Data Warehousing	5	Х	Х	admission restricted Please ask for Pre- requisites





Department / Study Program	Title	ECTS credits	Fall semester	Spring semester	Course code / specific infor- mation
			(Sept - Feb)	(March - July)	
T	Department of Medical En	gineering	g and Mechat	ronics	
T / Mechatronics / Medical	Microcontroller	5	Х	Х	89500
Engineering	Applications				
T / Medical Engineering	Technical Security in	5		Х	91100
	Medicine				
T / Mechatronics / Medical	Advanced Project	10	Х	X	
Engineering					
E / Digital Media Program	igital Media - open for enroll Corporate Design	8	X	tudents	
E / Digital Media Program	Image Conception	5			
E / Digital Media Program	· ·		Χ		
	Interaction Design 1	10	X		
E / Digital Media Program	Interaction Design 1 Color Design	+		Х	
E / Digital Media Program E / Digital Media Program	_	10		X	
	Color Design	10 5			
E / Digital Media Program	Color Design Computer Graphics	10 5 7		Х	
E / Digital Media Program	Color Design Computer Graphics E-Learning	10 5 7 8 7 5		X X X	
E / Digital Media Program	Color Design Computer Graphics E-Learning Photography Interaction Design 2 Typography	10 5 7 8 7 5 5		X X X	
E / Digital Media Program	Color Design Computer Graphics E-Learning Photography Interaction Design 2 Typography 2D-Animation	10 5 7 8 7 5 5 5		X X X X	
E / Digital Media Program	Color Design Computer Graphics E-Learning Photography Interaction Design 2 Typography	10 5 7 8 7 5 5	X	X X X	
E / Digital Media Program	Color Design Computer Graphics E-Learning Photography Interaction Design 2 Typography 2D-Animation Type in Motion/Signs Go	10 5 7 8 7 5 5 5	X	X X X X	

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16.08.2022

C) Master-Level Courses taught in English

Department / Study Program	Title	ECTS credits	Fall semester	Spring semester
		2.2	(Sept - Feb)	(March - July)
I / Master Intelligent Systems	Complete M. Sc Program is offered in English	90	X	X
Systems	Liigiisii			
https://studium.hs-ulm.de	e/en/Pages/Studiengang IS.aspx?SearchCatego	ry=Master;	,	
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.				
E / Master SYE and	Embedded Systems	6		X
SYE intl. resp.				
T / Master SY	Navigation for Medical Interventions	6	Х	
P / Master SY Logistics	Supply Network Performance	5	Х	
	Management			
P / Master SY Logistics	Quantitative Planning Methods	5		Х
G / Institute of foreign	International Business	5	Х	Х
Language and				
Management				





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