



List of courses taught in English – Spring Semester 2018

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

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

C) Master-Level Courses taught in English

- Master Degree Program in Information Systems
- Different courses offered by various faculties

D) German Language courses



List of courses taught in English - 2017/18

	Semester Programs	3-month-courses (IMEP, IEEP, ICEP)	Language Courses
Arrival day 1: 1. September	September	Intensive German Language Course for students with no or very little knowledge of German	
Arrival day 2: 1. October	October	Regular Semester Programs (Bachelor + Master level)	IMEP
	November		
	December		Exams for IMEP students
	January		Exams
	February		
Arrival day: 1. March	March	Intensive German Course	
Arrival day 2: 1. April	April	Regular Semester Programs (Bachelor + Master level)	ICEP + IEEP Program
	May		
	June		Exams for ICEP + IEEP students
	July		Optional project work
	August		Exam weeks



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

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

Detailed course description: <https://studium.hs-ulm.de/en/Pages/Incomings.aspx> (Downloads)

Department / Study Program	Lecturer	Title	ECTS credits	Fall semester 1. Oct - 23. Dec	Spring semester 1. April - 30. June
Production Engineering / IMEP					
P / IMEP	Kurfess / Wehrheim	CAD/CAM	4	X	
P / IMEP	Beckmann	Dynamics I	4	X	
P / IMEP	Beckmann	Dynamics II	4	X	
P / IMEP	Hüser / Hartberger	Lean Production Systems	4	X	
P / IMEP	Commerell	System Automation	4	X	
P / IMEP	Renze	Applied Thermal-Fluid Systems	4	X	
P / IMEP	Ruderich	Fluid Mechanics	4	X	
P / IMEP	Kabza	Fuel Cells	4	X	
P / IMEP	Watty	Collaborative Product Development (CPD)	4	X	
P / IMEP	Schlickenrieder	Assembly, Manipulation, Industrial Robotics (AMIR)	4	X	
Electrical Engineering / IEEP					
E / IEEP	Terzis	Digital Integrated Circuits	4		X
E / IEEP	Beckmann	Control Technology	4		X
E / IEEP	Professors of Department Electrical Engineering and Information Technology	EE Advanced Project Work	4		X
Computer Engineering / ICEP					
I / ICEP	Schäffter	Computer Networks	4		X
I / ICEP	Schäffter	Information Security Management	4		X
I / ICEP	Frey	Machine Vision	4		X
I / ICEP	Hering / Steiper	Operating Systems	4		X
I / ICEP	Strahlen	Computer Architecture	4		X
Social Sciences					
IMEP	McLeod	Germany within Europe	4	X	
I / ICEP and E / IEEP	Kratzer	Germany In The Last Three Centuries	4		X



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 chose only courses from one department.

Detailed course description of SPEEC and SPIB: <https://studium.hs-ulm.de/en/Pages/Incomings.aspx>
(Downloads)

*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 semester (March - July)	Course code
Department of Production Engineering and Production Economics / International Semester Program in Energy Economics - SPEEC						
P / SPEEC – Block 1*	Otto/Schlüter	Operations Research	5	X	X	
P / SPEEC – Block 1*	Gaisbauer-Pointner	Performance Management	5	X	X	CKLM
P / SPEEC – Block 1*	Herbort	Analytics for Energy Data	5	X	X	AFED
P / SPEEC – Block 1*	Kleiser	Energy Efficiency	5	X	X	
P / SPEEC – Block 1*	Böhm	Power Plant Technology	5	X	X	KRAT
P / SPEEC – Block 2*	Otto	Energy Trading and Risk Management	5	X	X	ETRM
P / SPEEC – Block 2*	Heilscher	Energy Data Management	5	X	X	EDAT
P / SPEEC – Block 2*	Otto / Heilscher	Seminar in Energy Economics	5	X	X	
P / SPEEC – Block 2*	Iniotakis	Simulation	5	X	X	
P / SPEEC – Block 1 + 2*	Heilscher / Arlitt	Energy Meteorology	5	X		
P / SPEEC – Block 1 + 2*	Gaisbauer-Pointner	Intercultural Communication	2	X	X	
P / SPEEC – Block 1 + 2*	Dippe	Leadership and Business Communication	5	X	X	
P / SPEEC – Block 1 + 2*	All professors	Project in Energy Economics	10	X	X	



Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semester (March - July)	Course code
Department of Mathematics, Natural and Economic Sciences / International Semester Program in Business - SPiB						
P / SPiB	Gaisbauer-Pointner	Performance Management and Cost Accounting	5	X	X	
P / SPiB	Dippe	Leadership and Business Communication	5	X	X	
P / SPiB	Cürten	Cross Cultural Management	5	X	X	
P / SPiB	Gaisbauer-Pointner / Bentley	Environmental Policy	5	X	X	
P / SPiB	Otto / Schlüter	Operations Research	5	X	X	
P / SPiB	Otto	Energy Trading and Risk Management	5	X	X	
P / SPiB	Iniotakis	Simulation	5	X	X	
P / SPiB	McLeod	Germany within Europe	4	X		
P / SPiB	Kratzer	Germany within the last three centuries	4		X	
P / SPiB	Gaisbauer-Pointner	Intercultural Communication	2	X	X	
P / SPiB	All professors	Project in Energy Economics	10	X	X	
Department of Production Engineering and Production Economics						
P / Production Engineering	Völker	Distribution Logistics	4	X	X	
P / Production Engineering	Stöhler / Völker	Business Information Systems	4	X	X	
P / Production Engineering	Heilscher / Arlitt	Energy Meteorology	5	X		
P / Production Engineering	Commerell	System Automation	4	X	X	
P / Production Engineering	Commerell	Energy Storages	4	X		



Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semester (March - July)	Course code
Department of Computer Science						
I / Computer Science: Complete Bachelor Program will be offered in English (started in Fall 2016, so in 2017 only Sem. 1-3 available + Special Subject Modules)						
1. Semester courses:						
	Severin	Calculus 1	5	X		
	Steiper	Introduction to Computer Science	5	X		
	Kratzer	Programming 1	5	X		
	Frey	Technical Foundations of Computer Science	5	X		
2. Semester courses						
	Severin	Linear Algebra	5		X	
	Kratzer	Programming 2	5		X	
	Steiper	Computer Networks	5		X	
	Schied	Theoretical Computer Science	5		X	
	Frey	Microcomputer Technology	5		X	
3. Semester courses						
	Severin	Calculus 2	5	X		
	Baer	Programming 3	5	X		
	Schied	Algorithms and Data Structures	5	X		
Special Subjects:						
3. Semester	Frey	Digital Systems	5	X		
3. Semester	Strahnen	Embedded Systems	5	X		
3. Semester	Schäffter	Information Security	5	X		
3. Semester	Graf	Mobile Application Development	5	X		
3. Semester	Frey	Machine Vision	5	X		
4. Semester	Frey	Hardware oriented Programming	5		X	
4. Semester	Schlegel	Realtime Systems	5		X	



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Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semester (March - July)	Course code
4. Semester	Schäffter	Digital Forensics	5		X	
4. Semester	Steiper	Adhoc & Sensor Networks	5		X	
4. Semester	Lunde	Computer Graphics	5		X	
5. Semester	Strahnen	Computer Architecture	5	X		
5. Semester	Schlegel	Autonomous Systems	5	X		
5. Semester	Schäffter	Pen Testing	5	X		
5. Semester	Traub	Web Engineering	5	X		
5. Semester	Hasbargen	Game Programming	5	X		
I / Business information Systems	Herbort	Database Programming	5	X	X	
I / Business information Systems	Goldstein	Data Warehousing	5	X	X	
I / Data Science in Medicine	Vögel	Medical Information Systems	5	X	X	
Department of Medical Engineering and Mechatronics						
T / Mechatronics	Kern	Problem solving in mech. Engineering	5		X	92700
T / Mechatronics / Medical Engineering	Groß/ Blechsmidt	Microcontroller Applications	5	X	X	89500
T / Medical Engineering	Blechsmidt	Technical Security in Medicine	5		X	91100
Department of Mechanical and Automotive Engineering						
M / Mechanical Engineering	Niebergall	Mobile Hydraulics	5		X	
Department of Mathematics, Natural and Economic Sciences						
G / Institute of foreign Languages and Management (IFM)	Bentley	Environmental Policy	5	X	X	



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Department / Study Program	Lecturer	Title	ECTS credits	Fall semester (October - February)	Spring semester (March - July)	Course code
Department of Electrical Engineering and Information Technology / Digital Media - open for enrollment ONLY for design students						
E / Digital Media Program	Radtke	Corporate Design	8	X		
E / Digital Media Program	Götz	Ergonomics / Universal Design	5	X	X	
E / Digital Media Program	Gaida	Image Conception	5	X		
E / Digital Media Program	Gerbaulet	Interaction Design 1	10	X		
E / Digital Media Program	Kruse	Motion Capturing	5	X		
E / Digital Media Program	Radtke	Color Design	5		X	
E / Digital Media Program	Hofmann	Computer Graphics	7		X	
E / Digital Media Program	Radtke	E-Learning	10		X	
E / Digital Media Program	Gaida	Photography	5		X	
E / Digital Media Program	Gerbaulet	Interaction Design 2	5		X	
E / Digital Media Program	Radtke	Typography	5		X	
E / Digital Media Program	Radtke	Type in Motion	5		X	
E / Digital Media Program	Lunde	Programming 1	5	X	X	
		Programming 2	5			



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		Complete Master Program is offered in English	90	x	x
E / Master SYE and SYE intl. resp.	Hartmann / Weiss	Numerical Optimization	6		X
E / Master SYE and SYE intl. resp.	Lau / Mantz / Werner	Physical Methods	6		X
E / Master SYE and SYE intl. resp.	Bank / Commerell	Modeling of Technical Systems	6		X
E / Master SYE and SYE intl. resp.	Bank	Model-Based Systems Development	6		X
E / Master SYE and SYE intl. resp.	M. von Schwerin / Schlick	Embedded Systems	6		X
P / Master SYI Logistics	Baumgärtel	Strategical Controlling with SCOR	5	X	
P / Master SYI Logistics	Baumgärtel, Stäblein	Quantitative Methods in Logistics Planning	5		X
G / Institute of foreign Language and Management	Dippe	International Business (Master-Program)	5	X	X



D) German Language courses

		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)	German for Beginners 2 - Intensive Course September	3	X	
G / Institute of foreign Language and Management (IFM)	German for Beginners 1 - Intensive Course March	2		X
G / Institute of foreign Language and Management (IFM)	German for Beginners 2 - Intensive Course March	3		X
G / Institute of foreign Language and Management (IFM)	German Beginners Level 1	2	X	X
G / Institute of foreign Language and Management (IFM)	German Beginners Level 2	3	X	X
G / Institute of foreign Language and Management (IFM)	German Beginners Level 3	5	X	X
G / Institute of foreign Language and Management (IFM)	German Beginners Level 4	5	X	X
G / Institute of foreign Language and Management (IFM)	German intermediate Level 1	5	X	X
G / Institute of foreign Language and Management (IFM)	German intermediate Level 2	5	X	X