

International Course “Telecommunication and Electronics”

Dear Reader,

The following lines serve the purpose of giving potential future students general information on the department’s international course “Telecommunication and Electronics” which is taught in German (Kaiserslautern) and English (London).

Based on an agreement between the University of East London (UEL) and the Fachhochschule Kaiserslautern, Kaiserslautern’s section of electrical engineering and information technology can offer a study programme leading to the dual award “Bachelor of Engineering / BEng (Hons)” after successful completion of the course.

The section of electrical engineering and information technology provides study courses in the fields of electrical engineering, information technology and engineering computing – the international specialisation “Telecommunication and Electronics” is embedded in information technology.

The BEng (Hons) Electrical & Electronic Engineering course which is offered as a special programme of study by the University of East London to students from the Fachhochschule Kaiserslautern involves students who are currently studying on Kaiserslautern’s Bachelor of Engineering and are interested in developing their engineering skills for a global market whilst enhancing their capabilities in the English language. Students who are interested in participating in this programme would therefore have undertaken preliminary studies on the Bachelor of Engineering in Kaiserslautern before progressing to the University of East London.

The international specialisation comprises a seven-semester course. Semesters 5 and 6 of the joint course are reserved for the academic year at the University of East London, which requires a successful completion of the first four semesters in Kaiserslautern. The final project can be carried out either in Germany or in UK.

The award of the Bachelor of Engineering and the grade of the award are entirely the provenance of the Fachhochschule Kaiserslautern and governed by the regulations for the award currently in force at that institution. The award of the BEng (Hons) and the grade of the award are entirely the provenance of the University of East London and subject to the regulations currently in force at that institution. However, the course has been designed in such a way that a student is unlikely to be able to receive one award and not the other.

For further information, please find attached the syllabus of the international course of the department’s study programme with the University of East London.

If you have additional questions on the course (in English or German), please turn to Dr. Kurt Heil, e-mail: kurt.heil@fh-kl.de

With kind regards,

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Course of Study: Information Technology

Specialisation: Telecommunication and Electronics

Modules	Total per Module		Scope of Courses in SWS in the Particular Semester							CP		
	SWS	CP	1	2	3	4	5	6	7	V	L	Ü
Mathematical Analysis I	6	7	5V1Ü									5 - 2
Mathematical Analysis II	6	7		5V1Ü								5 - 2
Linear Algebra	4	5	3V1Ü									3 - 2
Signals and Systems	5	6			4V 1Ü*							4 - 2
Physics I	2	3	2V									3 - -
Physics II	6	7	2V	1V 1Ü 2L								3 3 1
Fundamentals of Electrical Engineering I	4	5	3V 1Ü									3 - 2
Fundamentals of Electrical Engineering II	12	14		7V 2Ü	2L 1S*							7 3 4
Fundamentals of Digital Systems	4	4	2V	2V								4 - -
Object-Oriented Programming - Java	6	7	2V 2L*	1V 1L*								3 4 -
C Programming	2	3			1V 1L*							1 2 -
Electrical Components and Basic Electronic Circuit Design	6	7										
Electrical Components and Basic Electronic Circuit Design I					3V 1Ü							3 - 2
Electrical Components and Basic Electronic Circuit Design II						1V 1L*						1 1 -
Electrical Measuring Engineering I	4	5			2V	2L						2 3 -
Fundamentals of Information and Communication Technology	8	9										
Digital Communications					3V 1Ü	2L						
Information Transmission						2V						5 3 1
Fundamentals of Communication Engineering	6	7										
Stochastics					2V							3 - -
Introduction to Communication Engineering I						2V						
Introduction to Communication Engineering II						2V						4 - -
Fundamentals of High-Frequency Engineering and EMC	9	10										
Electromagnetic Fields and Waves					2V							2 - -
Electromagnetic Compatibility						2V						
Introduction to High-Frequency Engineering						3V 2L						5 3 -
Analogue and Digital Electronics	8	10					5V 1Ü 2L					5 3 2
Software Engineering and Microprocessors	8	10					5V 1Ü 2L					5 3 2
Digital Signal Processing	8	10					5V 1Ü 2L					5 3 2
Communication Circuits	8	10						5V 1Ü 2L				5 3 2
Embedded Systems and IC Design	8	10						5V 1Ü 2L				5 3 2
Computer Networks and Data Communications	8	10						5V 1Ü 2L				5 3 2
Internship		15									SL	
Technical English I	4	4	2V	2V								4 - -
Technical English II	4	4			2V	2V						4 - -
Technical Compulsory Optional Subjects	4	4				4V						4 - -
Non-Technical Compulsory Optional Subjects	2	2				2V						2 - -
Bachelor Thesis with Viva Voce												
Bachelor Thesis		12									B	
Viva Voce		3									K	
Total Number of Examinations¹⁾			4	5	6	8	3	3	2			
Total Number of Special Performances				1	1	3	3	3	1			
Total Number of Examination Advance Performances			1	1	4	1						
Total Number of SWS	152		26	25	26	27	24	24				
CP		210	30	30	30	30	30	30	30			30

1) The number of the written examinations can be increased by 2 at most depending on the chosen compulsory optional subjects.

Abbreviations:

SWS = Semester week/hr
CP = Credit Points according to ECTS (ECTS=European Credit Transfer System)

Teaching Forms:

V = Lecture
L = Laboratory
S = Seminar Exercise
Ü = Exercise

Forms of Examination and Special Performances:

L, S, Ü = Special Performance which is no Examination Advance Performance
L*, S*, Ü* = Special Performance which is an Examination Advance Performance
SL = Special Performance
PS = Project Work
B = Bachelor Thesis
K = Viva Voce

Greyed-out = Semester in which the written examination is to be taken