

Name of programme: International Semester Information Technology / System Engineering

Title of Module	Project Work / Guidance to Scientific Writing
Responsible person	Prof. Dr. Ansgar Kern
Teacher	Prof. Dr. Ansgar Kern
Module Code	E2F258
Type of Module	O obligatory module (Pflichtmodul), x elective module (Wahlpflichtmodul)
Level (BA / MA)	Bachelor
Language	English (German on demand)
Related Degree Programme/s	General Electrical Engineering, Communications Engineering and Computer Networks
Department	IEM
Location	O Gießen, x Friedberg
Availability/frequency of module	O every semester, O annually in the Winter Semester, x annually in the Summer Semester,
Hours per Week / Workload	6 HpW, contact hours per week 180 H in total
Number of CrP/ECTS	7 ECTS/CrP
Forms of instruction	x lecture O seminar O supervised training x Laboratory Practical Course
Qualifications and Goals	The students practiced selected, technical problems from real life Electrical engineering. They can work on problems as group with a maximum of two students. Students know how to create a professional presentation in English Language for an English speaking auditorium. The students work and solve mostly autonomously on a given problem. They can create structured, understandable and comprehensible documentation of the solution and the results in English. They are able to do analysis and evaluation of scientific publications. Students are able to analyze real systems and develop in a team problem-oriented solutions, technical documentations in English language and to present results adequately.
Short Description of Contents	Solving problems in the realm of electrical engineering, preparing and presenting technical documentation, introduction into the process of scientific work.
Description of Contents	Prepared and supervised problems from the technical areas of the Electrical engineering. The course will be shared by all relevant laboratories. Each laboratory involved contributes a number of problems. Students work on and solve a problem, with the possibility for individual choice of subjects welcome. The accompanying course "Guidance to Scientific Writing" covers the following topics: Introduction to the process of scientific work Carrying out literature research Analysis of scientific publications Source analysis and source references Writing and structuring scientific work using individual example Project work Presentation of scientific papers
Prerequisites	English level B2, basics of control theory, power electronics and digital communication.
Assessment	O oral (O examination of xx minutes, x presentation 40%), O written (O examination of xx minutes, x term paper 60%), other:
Literature/Textbooks	will be announced at the beginning of the lecture
Other	