

Course

LAN 1502 – English for Engineers

2 hours per week, 3 credits, English, level: intermediate

WING 2nd semester: Monday, 9.45 – 11.15 AND Thursday, 8.00 – 9.30

Groups will be decided in the first session: **Monday, 5th October 2020**

Classroom: see LSF

This course may be held online in WS2020/2021. Students must ensure that they have a microphone and video camera and a stable internet connection in order to participate on Alfaview.

Alfaview Classroom: <https://app.alfaview.com/#/join/alfaview-technik/99e5da5e-6392-45c3-abb4-f1a534eda3da/2683b19d-8755-4266-bf22-a649b030fa6b>

Compulsory Attendance!

Instructors:

Gabriella Loveday

(for more details: <https://catalog.hs-pforzheim.de/profil.jsp?gabriella.loveday>)

Office: T2.2.13, office hours: Tuesday 13.45-15.15.

Email: gabriella.loveday@hs-pforzheim.de

Rafael Correa

Office: T1.5.29, office hours: Monday, 11.30 – 13.00.

Email: rafael.correa@hs-pforzheim.de

Please feel free to contact us at any time should you have any questions or problems regarding the course or the continual assessment criteria.

Overview

Students have the opportunity to consolidate the skills they learned in Business English 1 as well as to extend their knowledge of topics relating to engineering processes.

Prerequisites:

Students should have a good command of the English language. (Level B2 according to the CEFR for languages). They must have passed the Business English 1 examination from their 2nd semester.

Learning Objectives

By the end of the course students

- Will be able to write technical reports and lab reports
- Will have gained an insight into a range of technical processes
- Will have extended their range of vocabulary relating to engineering topics
- Will be able to express themselves in a technical discussion in an appropriate manner
- Will be able to write an assignment using appropriate language, register and referencing
- Will be able to hold a presentation relating to an engineering process and conduct a class discussion

Course Topics

Product development/innovation/engineering design
Materials technology
Production and manufacturing processes
Energy storage
Sustainable energies
Logistics
Diagrams
Industry 4.0
Lean production/management cases
Experiments
Engineering projects

Teaching and learning approach

The course will be run as a seminar with an interactive approach. **All** students will be required to make an active contribution to group discussions and assignments. In addition, course assessment will be based on **group presentations** and **written assignments**. All classes will be held in English.

Contribution to program goals

Goals	Contribution	Assessment
Business Knowledge	Reading a wide variety of texts from business journals and newspapers to gain an insight into diverse topics	Class participation in discussions, presentations and written assignments
Use of information technology	Students will be encouraged to look up a variety of internet sources to research the various topics	Class participation in discussions, presentations and written assignments
Critical thinking and analytical capabilities	Examination of case studies dealing with strategic management, planning production processes, examining logistical processes, developing successful technical sales policies	Class participation in discussions, presentations and written assignments
Ethical thinking	Examination of ethical dilemmas for companies with regard to sustainable/alternative energies, environmental and social aspects	Class participation in discussions, presentations and written assignments
Communication skills	Role plays, simulations, presentations, discussions of a wide variety of technical issues in the English language	Class participation in discussions, role plays, simulations and presentations

Ability to work in teams	Role plays, discussions in groups of 3-4 students, group presentations, written group assignments	Class participation in discussions/role plays, presentations, written assignments
Intercultural competency	Examination of multi-national companies, global production and logistical processes	Class participation in discussions, presentations and written assignments
Interdisciplinarity	Course enhances knowledge and techniques from mathematics, mechanics and physics. It also provides an introduction to technical processes and sustainable product development, production planning, logistics, finance and technical sales which the students will attend in their 3 rd and 4 th semesters.	Class participation in discussions, presentations and written assignments

Course Material

- Current internet articles relating to engineering
- Handouts from technical journals and newspapers (New Scientist, New Statesman, INCH etc)
- Case Studies from the Internet (thetimes100)
- Technical English – Vocabulary and Grammar by Nick Brieger and Alison Pohl

Final Examination

There will be continual assessment throughout the course. **Therefore attendance is compulsory.** Students will be given grades for their **group presentations and written assignments.** They will receive **25%** of their **final grade** from their **class work** from each instructor (**50% in total**) and **25%** of their final grade from the **examination** at the end of the semester (**50% in total**). Regular feedback and correction will be provided to encourage improvement in students' written and oral communication skills in English.

Students who fail to give a presentation/write an assignment and attend class WILL FAIL THE COURSE.

Grading

Students will be graded on a scale of 1 = excellent, 2 = very good, 3 = satisfactory, 4 = pass and 5 = fail.

Behavioural Rules

Students are encouraged to seek assistance from their instructors for their group/individual assignments. Please note that the assignments must be original work based on research conducted. Plagiarism will be heavily penalized.

Tentative Schedule for WING, 2nd semester (changes may be necessary)

No	Date	Content
1	Correa/Loveday ALL STUDENTS	Introduction to course, distribution of presentation topics, academic writing, writing a summary, group formation
2/3	Loveday	Presentation training, introduction to report writing
2/3	Correa	Technical processes
4/5	Loveday	Technical report writing
4/5	Correa	Graph descriptions
6/7	Loveday	Student presentations of technical products/renewable/non-renewable energies; RFID
6/7	Correa	Experiments and lab report writing
8/9	Loveday	Student presentations of technical products/renewable/non-renewable energies; materials technology
8/9	Correa	Experiments and lab report writing
10/11	Loveday	Student presentations of technical products/renewable/non-renewable energies; energy storage, smart grids & DDCs
10/11	Correa	Industry 4.0
12	Loveday	Exam revision
13	Correa	Exam revision
14	Correa/Loveday	Written tasks for exam preparation

The exam will be held on Monday, 18th January 2021 at 9.45 am (if examination office approves)

My Teaching Philosophy: Gabriella Loveday

I am committed to providing the students with the best possible learning opportunities so that they improve their English communication skills. I am a firm believer in the maxim 'practice makes perfect'. Therefore, I encourage students to send me written assignments throughout the course and contact me after class during my visiting hours or via email so that I can provide them with individual support should they be having any problems with the course material and/or their English.

My Teaching Philosophy: Rafael Correa

My main goal during this course is to help prepare the students to perform in English, as well as they can, in professional and academic situations. With this in mind, I encourage the students to see the classroom as a safe and informal environment where they can experiment with the language and clarify all their doubts. Ideally, each student will end this course more confident, more critical and at the same time more self-aware regarding his/her own communication skills and stance while making presentations or taking part in discussions held in English.