ENGINEERING PF
SCHOOL OF ENGINEERING
Fakultät für Technik
Hochschule Pforzheim

HS PF

Syllabus

LAN1602 English for Engineers

Gabriella Loveday, Rafael Correa

Summer Semester 2024

Level	Bachelor	
Credits	2	
Student Contact Hours	2	
Workload	60 hours	
Prerequisites	Students should have a good command of the English language. (Level B2/C1 according to the CEFR for languages)	
Time	s. LSF	
Room	s. LSF	
Start Date	s. LSF	
Lecturer(s)	**Name**	Gabriella Loveday Rafael Correa
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	Virtual Office	Virtual Office Mrs. Loveday Virtual Office Mr. Correa
	Office Hours	By prior arrangement
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Summary

Our students will be expected to perform a wide variety of technical and business management functions in nationally and internationally operating companies. They will have to liaise within different business and technical fields. Therefore, a high level of English is required to enable them to communicate effectively.

This course aims to facilitate both oral and written communication within an engineering and business context. 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.

Outline of the Course

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

Course Intended Learning Outcomes and their Contribution to Program Intended Learning Outcomes / Program Goals

Program Intended Learning Outcomes		Course Intended Learning Outcomes
	After completion of the program the students will be able…	After completion of the course the students will be able…
1	**Expert Knowledge**	
1.1	...to demonstrate their solid key knowledge in Technical Basics.	…to discuss, describe and explain technical topics in the English language.
2	**Digital Skills**	
2.3	...to effectively use digital technologies to interact, to collaborate and to communicate.	…to use virtual communication applications such as Alfaview and are able to participate in discussions and perform presentations remotely.
3	**Critical Thinking and Analytical Competence**	
3.2	...to critically reflect and interpret findings and to develop comprehensive solutions for complex problems.	…to make a critical assessment of current and future technologies, taking their technical, social and environmental challenges into consideration.
4	**Ethical Awareness**	
	...to develop sound strategies in the areas of ethics, sustainable development and social responsibility and are able to apply them to typical economic decision-making problems.	…to analyze and present issues relating to sustainable development and corporate social responsibility.
5	**Communication and Collaboration Skills**	
5.1	...to express complex issues effectively in writing.	…use their written language skills related but not limited to production processes, graphs and charts, technical and laboratory reports.
5.2	...to demonstrate their oral communication skills in presentations.	…to present topics related to current technology development in appropriate oral form in discussions, simulations and presentations.
5.3	...to work successfully in a team by performing practical tasks.	…to prepare and present results of group work as a team.
6	**Internationalization**	
6.2	...to articulate themselves in a professional manner in international business.	…to participate in discussions and presentations relating to the role of technology both nationally and internationally.

Teaching and Learning Approach

The course will be run as a seminar with an interactive approach. All students will be expected to make an active contribution to group discussions, simulations and case studies.In addition, part of the course will consist of group and individual presentations. All classes will be held in English and students will be expected to regularly provide written assignments in order to improve their written communication skills.

Literature and Course Materials

- 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

Assessment

There will be continual assessment throughout the course. **Therefore attendance is compulsory. Students who fail to give a presentation/write an assignment and attend class WILL FAIL THE COURSE.**

Regular feedback and correction will be provided to encourage improvement in students' written and oral communication skills in English. Here is a detailed breakdown of the grading:

Loveday Class: **10% group presentation**
6% individual task
4% class attendance and participation

Correa Class: **10% graph description group task**
6% individual task
4% class attendance and participation

Final Examination:

The exam will count 60% towards the final grade (30% Correa/30% Loveday)

Grading Scale:

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

Schedule

English for Engineers (Groups A/B/C)

Time: Group A: Mondays, 13:45 – 15:15 (Correa/Loveday)

Group B: Wednesdays, 11.30 – 13.00 (Correa/Loveday)

Group C: Wednesdays, 11.30 – 13.00 (Correa/Loveday)

Students will be assigned to their groups in the first session.

First Session: **Monday, 18th March, 13.45 – 15.15 ALL groups - Make sure you attend this class, because important course information will be delivered (only) on this day!**
Room: W3.2.04

Schedule for Group A (Monday, 13.45 – 15.15):

Room T2.3.05

Date	Content	Task / Assignment	Responsibility
18.3.2024 at 13.45 ALL STUDENTS	Introduction to Course: Instructions, expectations, formation of groups, academic writing, energy vocabulary exercise.	Read syllabus & student schedule. Decide on a presentation subject with your team.	Loveday / Correa
25.3.2024 at 13.45	Presentation training, introduction to report writing, distribution of presentation topics.	Prepare some report writing exercises, start research into presentation topic.	Loveday
1.4.2024	**Easter Break**		
8.4.2024 at 13.45	Technical processes and the passive voice.	Classroom task. Please download the "Technical processes and the passive voice" worksheet from Moodle and have it available for the session.	Correa

15.4.2024 At 13.45	Technical Report Writing. Individual Assignment.	**Mandatory written task for ALL students. Submission deadline: 10.5.2024**	Loveday
22.4.2024	Technical Writing I – describing graphs and charts.	**Mandatory written task for ALL students. Submission deadline: 30.4.2024.** Please download the "Graph descriptions" worksheet from Moodle.	Correa
29.4.2024 at 11.30	Student Presentations 1 & 2 and discussion round	All the students should contribute constructively to the ensuing discussion.	Loveday
6.5.2024 at 13.45	Technical writing II – describing objects.	Please download the "3D component features" worksheet from Moodle.	Correa
13.5.2024 at 13.45	Student Presentations 3 & 4 and discussion round.	All the students should contribute constructively to the ensuing discussion.	Students/ Loveday
20.5.2024	**Whitsun Break**		
27.5.2024 at 13.45	Technical writing III – preparation for lab reports.	Classroom group task.	Correa
3.6.2024 At 13.45	Student Presentations 5 & 6 and discussion round.	All the students should contribute constructively to the ensuing discussion	Students/ Loveday
10.6.2024 at 13.45	Lab reports.	Classroom group task + **Mandatory written task for ALL students. Submission deadline: 16.6.2024.**	Correa
17.6.2024 at 13.45	Meeting energy needs, materials science, smart shopping, technical report writing practice.	Classroom group task.	Loveday
20.6.2024 at 9.45 in THD	Industry 4.0	Discussion.	Correa
24.6.2024 at 13.45	Revision.	Revision Tasks.	Loveday/ Correa

Schedule for Group B (Wednesday 11.30 – 13.00)

Room: T1.3.03

Date	Content	Task / Assignment	Responsibility
18.3.2024 at 13.45 ALL STUDENTS	Introduction to Course: Instructions, expectations, formation of groups, academic writing, energy vocabulary exercise.	Read syllabus & student schedule. Decide on a presentation subject with your team.	Loveday / Correa
27.3.2024 at 11.30	Presentation training, introduction to report writing, distribution of presentation topics.	Prepare some report writing exercises, start research into presentation topic.	Loveday
3.4.2024	**Easter Break**		
10.4.2024 at 11.30	Technical processes and the passive voice.	Classroom task. Please download the "Technical processes and the passive voice" worksheet from Moodle and have it available for the session.	Correa
17.4.2024 at 11.30	Technical report writing. Individual assignment.	**Mandatory written task for ALL students. Submission deadline: 10.5.2024.**	Loveday
24.4.2024 at 11.30	Technical writing I – describing graphs and charts.	**Mandatory written task for ALL students. Submission deadline: 30.4.2024.** Please download the "Graph descriptions" worksheet from Moodle.	Correa
2.5.2024 at 8.00 in T2.3.05	Student Presentations 1 & 2 and discussion round.	All the students should contribute constructively to the ensuing discussion.	Students / Loveday
8.5.2024 at 11.30	Technical writing II – describing objects	Please download the "3D component features" worksheet from Moodle.	Correa

15.5.2024 at 11.30	Student Presentations 3 & 4 and discussion round.	All the students should contribute constructively to the ensuing discussion.	Students/ Loveday
22.5.2024	**Whitsun Break**		
29.5.2024 at 11.30	Technical writing III – preparation for lab reports.	Classroom group task.	Correa
5.6.2024 at 11.30	Student Presentations 5 & 6 and discussion round.	All the students should contribute constructively to the ensuing discussion.	Students/ Loveday
12.6.2024 at 11.30	Lab reports.	Classroom group task + **Mandatory written task for ALL students. Submission deadline: 18.6.2024.**	Correa
19.6.2024 at 11.30	Meeting energy needs, materials science, smart shopping, technical report writing practice.	Classroom group task.	Loveday
20.6.2024 at 9.45 in THD	Industry 4.0.	Discussion	Correa
26.6.2024 at 11.30	Revision.	Revision Tasks.	Correa/Loveday

Schedule for Group C (Wednesday 11.30 – 13.00)

Room: T2.3.05

Date	Content	Task / Assignment	Responsibility
18.3.2024 at 13.45 ALL STUDENTS	Introduction to Course: Instructions, expectations, formation of groups, academic writing, energy vocabulary exercise.	Read syllabus & student schedule. Decide on a presentation subject with your team.	Loveday / Correa
27.3.2024 at 11.30	Technical processes and the passive voice.	Classroom task. Please download the "Technical processes and the passive voice" worksheet from Moodle and have it available for the session.	Correa
3rd April	**Easter Break**		
10.4.2024 at 11.30	Presentation training, introduction to report writing, distribution of presentation topics.	Prepare some report writing exercises, start research into presentation topic.	Loveday
17.4.2024 at 11.30	Technical writing I – describing graphs and charts.	**Mandatory written task for ALL students. Submission deadline: 30.4.2024.** Please download the "Graph descriptions" worksheet from Moodle.	Correa
24.4.2024 at 11.30	Technical report writing. Individual assignment.	**Mandatory written task for ALL students. Submission deadline: 10.5.2024**	Loveday
2.5.2024 at 8.00 in T1.3.09	Technical writing II – describing objects.	Please download the "3D component features" worksheet from Moodle.	Correa
8.5.2024 at 11.30	Student Presentations 1 & 2 and discussion round.	All the students should contribute constructively to the ensuing discussion.	Students / Loveday
15.5.2024 at 11.30	Technical writing III – preparation for lab reports.	Classroom group task .	Correa
22.5.2024	**Whitsun Break.**		
29.5.2024 at 11.30	Student Presentations 3 & 4 and discussion round.	All the students should contribute constructively to the ensuing discussion.	Students/ Loveday
5.6.2024 at 11.30	Lab reports.	Classroom group task + **Mandatory written task for ALL students. Submission deadline: 16.6.2024.**	Correa
12.6.2024 at 11.30	Student Presentations 5 & 6 and discussion round.	All the students should contribute constructively to the ensuing discussion.	Students/ Loveday

19.6.2024 at 11.30	Industry 4.0.	Discussion	Correa
20.6.2024 at 9.45 in T2.2.05	Meeting energy needs, materials science, smart shopping, technical report writing practice.	Classroom group task: Revision tasks.	Loveday
26.6.2024 at 11.30	Revision.	Revision Tasks.	Correa/ Loveday

Academic Integrity and Student Responsibility

Students are required to participate actively in all course activities. Furthermore, they will be expected to complete homework/class preparation tasks. Failure to do so may lead to the student being ejected from the class. The group work load should be completed by ALL members of the group.

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.

Code of Conduct for Students

Link to the Code of Conduct for online Teaching

In case of online teaching: Students must ensure that they have a microphone and video camera and a stable internet connection in order to participate on Alfaview.

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.

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.

Please feel free to contact us at any time should you have any questions or problems regarding the course or the final examination.

Additional Information

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

Language:
English