

Syllabus  
**LAN1604 Advanced English for Engineers**  
 Prof. Dr. Katharina Kilian-Yasin, Rafael Correa  
 Summer Semester 2022

<b>Level</b>	Bachelor	
<b>Credits</b>	2	
<b>Student Contact Hours</b>	2	
<b>Workload</b>	60 hours	
<b>Prerequisites</b>	You should have a good command over the English language. You should have attended Advanced Business English.	
<b>Time</b>	Wednesdays 01:45 – 03:15 pm (Group A), 03:30 – 05:00 pm (Group B), 05:15 – 06:45 pm (Group C).	
<b>Room</b>	T2.4.05 (except for kickoff session, in THG)	
<b>Start Date</b>	<b><u>Wednesday, 16<sup>th</sup> March 2022, 01:45–03:15 pm, in THG – ALL GROUPS TOGETHER. Make sure you attend this class, because important course information will be delivered (only) on this day!</u></b>	
<b>Lecturer(s)</b>	<b>Name</b>	Prof. Dr. Katharina Kilian-Yasin, Rafael Correa
	<b>Office</b>	T1.5.25 (Prof. Kilian-Yasin), T1.5.29 (Mr. Correa)
	<b>Virtual Office</b>	Will be announced in class
	<b>Office Hours</b>	by appointment / s. moodle course
	<b>Phone</b>	07231 28-6462 (Prof. Kilian-Yasin), 07231 28-6471 (Mr. Correa)
	<b>Email</b>	<a href="mailto:katharina.kilian-yasin@hs-pforzheim.de">katharina.kilian-yasin@hs-pforzheim.de</a> , <a href="mailto:rafael.correa@has-pforzheim.de">rafael.correa@has-pforzheim.de</a> (preferred mode of communication)

## Summary

Students have the opportunity to consolidate the skills they learned in Advanced Business English as well as to extend their knowledge of topics relating to international business and engineering processes, and sustainability in international management and engineering. They acquire abilities to conduct research in the English language and to present their findings in English both orally and in writing. Thereby they practice preparing assignments according to academic standards.

## Outline of the Course

- Technical writing and vocabulary
- Technological innovation and sustainability;
- Mobility;
- Materials technology; waste mitigation, management and recycling;
- Design, production and manufacturing processes, comparing technical options and their financial and environmental advantages and disadvantages;
- New technologies – reduction of greenhouse gasses emissions, renewable energy generation, energy storage and management solutions.

## 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...
<b>1 Expert Knowledge</b>	
1.1 ...to demonstrate their solid key knowledge in Technical Basics.	...to use an extended technical vocabulary and enhanced language skills to discuss technical topics in the English language. They know how to describe and explain technical basics in the English language.
1.3 ...to demonstrate their distinguished and sound competencies in General Business Administration.	...to apply English language skills to discuss and compare cost advantages and disadvantages of technological solutions.
1.8 ...to demonstrate profound expert knowledge in their field of specialization.	... to prepare and present results of groupwork as a team.
<b>2 Digital Skills</b>	
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.
<b>3 Critical Thinking and Analytical Competence</b>	
3.2 ...to critically reflect and interpret findings and to develop comprehensive solutions for complex problems.	...to make a critical assessment of complex current and future technological issues, taking their technical, social and environmental challenges into consideration.
<b>4 Ethical Awareness</b>	
...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 participate in discussions involving the challenges posed by current policies and social expectations regarding sustainable development, corporate social responsibility, and ethical supply-chains.
<b>5 Communication and Collaboration Skills</b>	
5.1 ...to express complex issues effectively in writing.	...to present complex topics in current technology development in appropriate written form.

5.2	...to demonstrate their oral communication skills in presentations.	...to present topics related to current technological developments and their social, economic and environmental impacts, in appropriate oral form, in discussions and presentations.
5.3	...to work successfully in a team by performing practical tasks.	...to conduct extensive research on complex topics and correlate their findings before presenting their results of group work as a team.
<b>6</b>	<b>Internationalization</b>	
6.1	...to understand and explain business challenges in an international context.	...to examine the role of technology and policy, both nationally and internationally, and to present their findings in a professional manner.
6.2	...to articulate themselves in a professional manner in international business.	...to lead discussions and deliver presentations relating to the role of technologies, both nationally and internationally.

## 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, presentations and case studies. If the course is held entirely or partly over Alfaview, this implies that students must have access to a stable internet connection as well as working web camera and microphone for all online sessions. Please contact me if you have any questions in this regard.

In addition to active participation in class activities and discussions, course assessment will be based on group and individual presentations and written assignments. All classes will be held in English.

## Literature and Course Materials

- Handouts / Audio material from *Cambridge English for Engineering* by Mark Ibbotson
- Handouts from technical journals and newspapers (New Scientist, New Statesman, Waste Today Magazine, etc.)
- Case studies and other information from the Internet (bmu.de, iaee.org, gssd.mit.edu, etc.)
- Handouts from *Technical English – Vocabulary and Grammar* by Nick Brieger and Alison Pohl

## Assessment

This course has obligatory attendance.

The *requirement to pass this course* and the *basis of your course grade* include the following:

- **20% Active class participation.** Points will be awarded for continuous presence and active and valuable contributions to sessions and discussions and completion of written tasks.
- **30% Group presentation and handout.** Points will be awarded based on presentation content, design, language, and delivery and on completeness and language of handout.
- **50% Final written examination.**

**Passing mark: 60%. Achievement below 60% of full points in any one of the four grade components (group presentation, active class participation, written assignments, and exam) means failing the course!**

## Schedule

See Moodle.

## **Academic Integrity and Student Responsibility**

Please do not hesitate in case you have any questions regarding the course. You are also welcome to make suggestions on the course.

## **Code of Conduct for Students**

Please do not hesitate to contact the lecturer in case you have any questions regarding the course.

[Link to the Code of Conduct for online Teaching](#)

## **Teaching Philosophy**

Participants are expected to be proactive and take interest in their own development, for example by actively contributing to classroom discussions and other tasks. They should not wait for the lecturers to call on them to participate, but take initiative, making use of a safe and welcoming classroom environment. Language being a major component of this course, participants are encouraged to assess whether they feel like they need to improve on their English skills and to actively take the necessary measures in this regard (e.g. by asking for and submitting extra written tasks for correction). The lecturers are there to support and encourage them in this process.

## **Additional Information**

### **Language:**

English