General Information:

Name of Course: **ENGLISH FOR MECHANICAL AND BUILDING SERVICES ENGINEERING**

Course Code: PMEILNE509
Semester: 2nd
Number of Credits: 2
Allotment of Hours per Week: 2 Lessons /Week
Evaluation: Midterm test and final presentation
Prerequisites: **Completion of Placement Test**

Instructors: **Marcus JUBY, language teacher**
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Introduction, Learning Outcomes:
The course is designed for students with a higher-intermediate knowledge of English. The aim of the course is to introduce students studying mechanical engineering or building design to the basics of mechanical engineering and energy efficiency in buildings. The course will concentrate on the four cores of language acquisition - spoken skills, listening skills, writing and reading. Although this course does focus on many mechanical engineering concepts, these are useful for any students studying engineering, industrial design, architecture and IT.

General Course Description and Main Content:
The course will focus on:
- reading and understanding a range of authentic texts
- listening to lectures, presentations and interviews
- how to prepare and give presentations
- critical thinking
- learning and using academic vocabulary in the field of engineering

Students must have either a recognised intermediate level (B2) language exam or have successfully passed a placement test to take this course. Those students who have a lower level of English should talk to the instructor.

Methodology:
The course is based on the required course book "Mechanical and Building Services Engineering" and will involve instruction from the teacher as well as frequent group collaboration. There will also be frequent use of multimedia for the lessons and students are expected to keep up to date with the homework set.

Schedule:
The course will be held 1 x 1.5 hours per week for the Spring.

The outline of the schedule is as follows:
Week 1-4: **What does a career in mechanical and building services engineering involve?** Mechanical and building services engineering as a career choice, job descriptions, energy design and environmental protection.
Week 5-8: **Basic theory of mechanical engineering:** International System of Units, thermodynamics and heat transfer, material science engineering, the engineering design process and technical drawings.

Week 9: **Spring break**
Week 10: **Midterm test**
Week 11: **Computer practical - Learning Prezi:** Students will learn how to give presentations in English using Prezi as the means of communication.
Week 12-14 **Building services engineering in practice:** Heating, solar energy, sanitation and emerging technologies in buildings
Week 15: **Final presentations**

Attendance:
Attending is required all classes, and will impact the grade (max. 10%). Unexcused absences will adversely affect the grade, and in case of absence from more than 30% of the total number of lesson will be grounds for failing the class. To be in class at the beginning time and stay until the scheduled end of the lesson is required, tardiness of more than 20 minutes will be counted as an absence. In the case of an illness or family emergency, the student must present a valid excuse, such as a doctor's note.

Evaluation + Grading
Grading will follow the course structure with the following weight: midterm exam 50%, final presentation 50%.

The midterm test will be a written test with a listening component.

The final assessment for the course will be a presentation in a topic of your choice. The presentation will be 7-10 minutes and will be presented using PREZI or something similar.
You will be assessed on:

1) How well tyou communicate your ideas
    1. Is your presentation logical and easy to follow?
    2. Do you use the presentation phrases to introduce new ideas to the presentation?
    3. Do you speak to the class or just read from the presentation?
2) The content of the presentation
    1. Is the material relevant and interesting?
    2. Have you provided references for where you got your information from (no Ctrl+C and Ctrl+V just from Wikipedia)?
    3. Can you answer questions from the audience at the end of the presentation?
3) The quality of the Prezi
    1. How good does your PREZI look?
    2. Is the layout of the PREZI clean with only the key information?
    3. How well can you use images to get your idea across?

5. Excellent understanding of the material learned in the class which is demonstrated through the midterm test and final presentation.

4. High quality work which demonstrates a very good understanding of the concepts learnt during the course. Students are likely to actively participate in classroom discussions and collaboration tasks.

3. Students reach a satisfactory level in understanding and retaining the material learned. There may be some deficiencies in vocabulary or communication skills.

2. Less than satisfactory. Students have major deficiencies in learning the material from the course.

1. Unsatisfactory work - students have failed to reach the basic level required for the course. There are major deficiencies in the amount of material learned and/or they have failed to attend the class sufficiently.

Grading Scale:

Numeric Grade:	5	4	3	2	1
Evaluation in points:	90%-100%	80%-89%	70%-79%	60%-69%	0-59%

Students with Special Needs:
Students with a disability and needs to request special accommodations, please, notify the Deans Office. Proper documentation of disability will be required. All attempts to provide an equal learning environment for all will be made.

Readings and Reference Materials:

Required coursebook: Juby Marcus, (2014), ‘ Mechanical and Building Services Engineering’

Link:

https://onedrive.live.com/redir?resid=D1F567261E10689B!2906&authkey=!AIAcH_lC96EcitQ&ithint=file%2cpdf