

COURSE SYLLABUS AND COURSE REQUIREMENTS

ACADEMIC YEAR 2024/25 AUTUMN SEMESTER

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| <i>Course title</i> | <i>English for Environmental Protection</i> |
| <i>Course Code</i> | SZE077AN |
| <i>Hours/Week:</i> | 2 seminars |
| <i>Credits</i> | 2 |
| <i>Degree Programme</i> | all |
| <i>Study Mode</i> | <i>full time</i> |
| <i>Requirements</i> | final course grade |
| <i>Teaching Period</i> | spring |
| <i>Prerequisites</i> | B1 and above |
| <i>Department(s)</i> | Centre for Foreign Languages for Technical Purposes |
| <i>Course Director</i> | Julia Torok |
| <i>Teaching Staff</i> | <i>Julia Torok</i> |

COURSE DESCRIPTION

English for Environmental Protection is a course designed for architecture and engineering students with intermediate knowledge of English. This course will focus on a selection of topics related to environmental protection, including climate change, energy resources, waste management, water management, sustainable transportation, and sustainable construction technologies. The course will utilize articles and videos as input materials, and students will be given individual tasks and will also work in groups. At the end of the course, students will give a presentation on an environmental problem in their own country. The course is designed to help students improve their English language skills while learning about important environmental issues.

SYLLABUS

1. GOALS AND OBJECTIVES

The goals of the course are

to provide architecture and engineering students with intermediate knowledge of English with a deeper understanding of various environmental protection topics such as climate change, energy resources, waste management, water management, sustainable transportation, and sustainable construction technologies,

to improve students' English language comprehension skills through the use of articles and videos as input materials,

to give students the opportunity to work on individual tasks as well as in groups,

to help students develop the ability to present an environmental problem in their own country and

to create an awareness of environmental issues and promote sustainable practices.

2. COURSE CONTENT

TOPICS

PRACTICE

1. Introduction to environmental issues - overview of global environmental challenges.
2. Natural systems, biodiversity, climate change – reasons and effects
3. Energy resources – renewables and non-renewables
Energy resources – current problems and solutions
4. Sustainable architecture: passive solar design and green design solutions
5. Green construction technologies
Building engineering services – energy efficient solutions
6. Waste management
Waste disposal
Hazardous waste
Recycling and repurposing
7. Water use and pollution
Water management
Water quality
8. Sustainable transportation
Energy efficient vehicles
9. Green technology
Sustainable production and consumption

DETAILED SYLLABUS AND COURSE SCHEDULE

PRACTICE

| week | Topic | Compulsory reading | Required tasks | Completion date, due date |
|------|---|---|---|---------------------------|
| 1. | Placement test | | https://forms.gle/qZsaQQTkxndx62Tx7 | 12 September |
| 2. | 1. Introduction to environmental issues: overview of global environmental challenges. | Ecological footprint calculator https://www.footprintcalculator.org/home/en Environmental issues and useful expressions (handout) | Environmental issues in your country | 19 September |
| 3. | Natural systems, biodiversity Human activity and sustainability Climate change | Fairborne – a village in Wales (video + questions) home assignment | Signs of climate change | 26 September |
| 4. | Energy resources – renewables and non-renewables | Types of renewable energy: https://education.nationalgeographic.org/resource/renewable-resources https://education.nationalgeographic.org/resource/renewable-energy Energy transformation (Samsung infographic – discussion) 7 ways to save energy (Infographic – discussion) | In-class assignment: completing a table about the energy sources used in your country -> Discussion City of Heat (Reading comprehension) | 3 October |
| 5. | Sustainable architecture: passive solar design and green design solutions | Energy efficient home design worksheet | Words and definitions | 10 October |
| 6. | Green construction technologies | Modular homes (handout: links to videos and questions) What does the future of sustainable buildings look like? https://www.ny-engineers.com/blog/what-does-the-future-of-sustainable-building-look-like-in-2023 Building engineering services – energy efficient solutions Heat pumps: how do they work? (Handout: article and questions) | Homework: The future of cities (Reading comprehension) | 17 October |
| 7. | Waste management Waste disposal Hazardous waste | Total waste treatment in the EU in 2020 https://www.statista.com/statis | | 24 October |

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|-----|--|--|---|--------------------|
| | Recycling and repurposing | tics/1341013/european-union-total-waste-treatment-shares-by-method/ Electronic and electrical waste in the EU (infographic) What happens to rubbish https://cleanstreets.westminster.gov.uk/wp-content/uploads/Infographic-Main_3.gif | Presentation slides to be submitted (through Teams Assignment) Waste management in your country | |
| 8. | Water use and pollution Water management Water quality | Water articles (handout) Vanishing glaciers (handout with link to video and questions) | | 7 November |
| 9. | Autumn holiday – no class | | | 31 October |
| 10. | Sustainable transportation Energy efficient vehicles | What are the most effective ways to get cars out of cities? (article with exercises) Copenhagenisation (handout with link to video and questions) | The Scandinavian-Mediterranean corridor (video and questions) | 14 November |
| 11. | Consequences | EV batteries (handout) Space trash (handout) | Making the recommended changes to the presentation slides | 28 November |
| 12. | MIK Partners Day – no class | | | 21 November |
| 13. | Presentations | Scheduled presentations to be delivered | | 28 November |
| 14. | Presentations | Scheduled presentations to be delivered | | 5 December |

3. ASSESSMENT AND EVALUATION

ATTENDANCE

In accordance with the Code of Studies and Examinations of the University of Pécs, Article 45 (2) and Annex 9. (Article 3) a student may be refused a grade or qualification in the given full-time course if the number of class absences exceeds 30% of the contact hours stipulated in the course description.

Method for monitoring attendance

Attendance sheet

ASSESSMENT

Course resulting in mid-term grade (PTE TVSz 40§(3))

Mid-term assessments, performance evaluation and their ratio in the final grade

| Type | Assessment | Ratio in the final grade |
|------------------------------------|-------------------------|--------------------------|
| Assignments | 5 x 10 marks = 50 marks | 30% |
| Presentation | 60 marks | 36 % |
| Class attendance and participation | 11 x 5 = 55 marks | 34 % |

Re-take exam and late assignment submission procedure and assessment

Assignments are to be completed by the deadline. Late submissions will result in a 10% lower score.

The presentation slides must be submitted by the deadline. Late submission will result in a 20% lower score.

A doctor's certificate is required if the presentation is not delivered in the scheduled class (Week 14 or 15) due to illness. In this case the presentation can be done after Week 15.

Grade calculation as a percentage

based on the aggregate performance according to the following table

| Course grade | Performance in % |
|------------------|------------------|
| excellent (5) | 85 % ... |
| good (4) | 70 % ... 84 % |
| satisfactory (3) | 55 % ... 69 % |
| pass (2) | 40 % ... 54 % |
| fail (1) | below 40 % |

4. SPECIFIED LITERATURE

COMPULSORY READING AND AVAILABILITY

All course handouts are available in the Teams folder of the course (by week).