

## COURSE SYLLABUS AND COURSE REQUIREMENTS

ACADEMIC YEAR 2022/2023 SEMESTER 2

<i>Course title</i>	English for Sustainable Design
<i>Course Code</i>	SZE005AN
<i>Hours/Week: le/pr/lab</i>	2 hr/week
<i>Credits</i>	2
<i>Degree Programme</i>	All
<i>Study Mode</i>	Full time
<i>Requirements</i>	None
<i>Teaching Period</i>	2022/2023 2
<i>Prerequisites</i>	None
<i>Department(s)</i>	Centre for Foreign Languages for Technical Purposes
<i>Course Director</i>	Julia Török
<i>Teaching Staff</i>	Marcus Juby

## COURSE DESCRIPTION

This course is designed for students with a higher-intermediate level of knowledge in English who are interested in sustainable design. The aim of the course is to provide an introduction to the various aspects of sustainable design, specifically focusing on the impact of humans on the environment in the areas of energy, water, waste, housing, and biodiversity. Students will be exposed to traditional and alternative solutions to expand their options for future design work.

## SYLLABUS

### 1. GOALS AND OBJECTIVES

The course will cover human's impact on the environment especially in the field of energy, water, waste, housing and biodiversity. Students will be introduced to both traditional and alternative solutions to enable them to expand their options for future design work. The course is open to all students who are interested in a sustainable future through good design.

#### Objectives:

- Students learn different key concepts of sustainability in English and how they can incorporate these concepts into their life and future career.

#### Generic learning outcomes:

The course will focus on:

- reading and understanding a range of authentic texts
- listening to lectures, presentations and interviews
- learning and using academic vocabulary in the field of sustainable design
- learning key concepts in ecological design, natural construction, water, waste, biodiversity and communities

## 2. COURSE CONTENT

### TOPICS

#### LECTURE

1. State of the environment - Carbon footprints
2. Energy resources and consumption
3. Eco-building design – vernacular buildings
4. Eco-building design – tiny houses and strawbale houses
5. Water – the driving force of nature
6. Sustainable design principles – permaculture
7. Ecosystems, soil as a resource and preserving biodiversity
8. Consumption and minimalism
9. Eco communities

## DETAILED SYLLABUS AND COURSE SCHEDULE

ACADEMIC HOLIDAYS INCLUDED

#### LECTURE

week	Topic	Compulsory reading (Unless otherwise noted, all materials will be uploaded to Moodle)	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	Registration	-	-	-
2.	State of the environment, eco-footprint	Introduction to sustainable design presentation What is your ecological footprint Progress Test	Calculate your ecological footprint	Feb 23 <sup>rd</sup>
3.	Energy generation and consumption	Presentation on Energy Hungary's electricity usage Domestic Solar Electricity – A case study Alternative Fuels Vocabulary Task Video: Why I changed my mind about nuclear energy Video: How many lightbulbs	Wakelet: Upload graph of your country's energy generation and consumption	Mar 2 <sup>nd</sup>
4.	Nature based buildings – vernacular buildings	Presentation on Sustainable Buildings Natural building definition matching exercise	Wakelet: Upload photos of vernacular architecture to wakelet	Mar 9 <sup>th</sup>
5.	Nature based buildings – strawbale	Presentation on Strawbale Construction Strawbale Construction vocabulary		
6.	Water – the driving force of nature	Presentation on Water Resources Brad Lancaster: Water harvesting in drylands Permaculture Design for Water	Moodle discussion: Managing water resources in your area	Mar 23 <sup>rd</sup>
7.	Sustainable Design Principles – Permaculture	Permaculture Design Principles Presentation Biomimicry Video	Moodle discussion and wakelet: Permaculture and sustainable design	Mar 30 <sup>th</sup>
8.	Ecosystems, soil and biodiversity	Preserving Soils and Biodiversity Presentation Video: How to fight desertification and reverse climate change		
9.	Spring Break		-	-
10.	Consumption, waste management	Stuff Presentation Video: The story of stuff		
11.	Project work	Read the design brief for the final design assessment (under assessment in Moodle) Look at other examples from previous years of students work		
12.	Final Test		Final Test	Apr 27 <sup>th</sup>
13.	Eco-communities	Intentional and Eco-Communities Task handed out in class		

14.	Presentations		Final presentation	May 11 <sup>th</sup>
15.	Presentations		Final presentation	May 18 <sup>th</sup>

### 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 or does not participate effectively in groupwork.

#### **Method for monitoring attendance**

Register

#### ASSESSMENT

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

#### **Mid-term assessments, performance evaluation and their ratio in the final grade (The samples in the table to be deleted.)**

Type	Assessment	Ratio in the final grade
Class attendance and submission of homework	10 points	10 %
Test	45 points	45 %
Presentation in two final weeks	45 points	45 %
Total		100%

#### **Opportunity and procedure for re-takes (PTE TVSz 47§(4))**

There will be the chance to resit the test in week 16. Contact the teacher if you would like to request an extension for late submission of assignments.

#### **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 % ... 85 %
satisfactory (3)	55 % ... 70 %
pass (2)	40 % ... 55 %
fail (1)	below 40 %

The lower limit given at each grade belongs to that grade.

### 4. SPECIFIED LITERATURE

#### COMPULSORY READING AND AVAILABILITY

[1.] Unless otherwise notified all course materials and links will be uploaded to MS-Teams and Moodle

#### RECOMMENDED LITERATURE AND AVAILABILITY

[2.] Sofie Pelsmakers: 2019, The Environmental Design Pocketbook (Riba Publishing)