

## COURSE SYLLABUS AND COURSE REQUIREMENTS

### ACADEMIC YEAR 2022/2023 SEMESTER I

<i>Course title</i>	Basics of Sustainability
<i>Course Code</i>	SZE074AN
<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 I
<i>Prerequisites</i>	None
<i>Department(s)</i>	Department of Civil Engineering
<i>Course Director</i>	Marcus Juby
<i>Teaching Staff</i>	Marcus Juby

## COURSE DESCRIPTION

This course is open to students who are interested in concepts of sustainability and how they can introduce these concepts into their studies and future professional work. Our world is constantly changing and it is important for globally conscious engineers to take into consideration concepts of sustainability when making decisions regarding design, material use and waste. The UN has set out the Agenda 2030 Sustainable Development Goals which are necessary if humanity is to thrive in the future and this course includes many of the ideas mentioned.

## SYLLABUS

*Neptun: Instruction/Subjects/Subject Details/Syllabus*

### 1. GOALS AND OBJECTIVES

Although sustainability has become a buzzword in the last few decades, many people know exactly what it means. This course introduces some of the challenges that are facing humanity and discusses options for sustainable solutions to solve these challenges.

#### Objectives:

- Students learn the key concepts of sustainability and why it is important for our generation and future generations.
- Students become familiar with the UN Sustainable Development Goals and how it affects their country.
- Students discover solutions in the critical fields of food production, water, shelter that are needed to ensure an existence for future generations.

#### Generic learning outcomes:

- Reading and understanding a range of authentic texts.
- Exploring how sustainability affects you and your region.
- Effectively communicate in group work

## 2. COURSE CONTENT

### TOPICS

#### LECTURE

1. Introduction to sustainability
2. Environmental ethics
3. Population
4. Climate change
5. Sustainable Development Goals
6. Biomimicry
7. Natural building materials and techniques
8. Biodiversity
9. Food production
10. Consumption, waste and waste management
11. Water challenges
12. Existential threats to humanity

## DETAILED SYLLABUS AND COURSE SCHEDULE

### LECTURE

week	Topic	Compulsory reading; page number	Required tasks (assignments, tests, etc.)	Completion date, due date
1.	Registration		Online introductory task (via Teams)	Sept 13
2.	Defining sustainability, environmental ethics, population.	Material uploaded to Teams		
3.	Climate change	Material uploaded to Teams		
4.	Sustainable Development Goals	Material uploaded to Teams		
5.	Biomimicry	Material uploaded to Teams		
6.	Nature based solutions for building	Material uploaded to Teams		
7.	Biodiversity	Material uploaded to Teams		
8.	Food production	Material uploaded to Teams		
9.	Autumn Break			
10.	Waste management and the circular economy	Material uploaded to Teams	Video presentation of your proposal	
11.	Test			November 14 <sup>th</sup>
12.	Water	Material uploaded to Teams		
13.	Existential threats to humanity	Material uploaded to Teams		
14.	Presentations			December 5 <sup>th</sup>
15.	Presentations			December 12 <sup>th</sup>

Important: All material will be uploaded to Teams

## 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*

Type	Assessment	Ratio in the final grade
Class attendance and submission of homework	10 points	10 %
Test	45 points	45 %
Presentation/Report 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*

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

### RECOMMENDED LITERATURE AND AVAILABILITY

[2.] United Nations Sustainable Development Goals <https://sdgs.un.org/goals>