COURSE SYLLABUS AND COURSE REQUIREMENTS
ACADEMIC YEAR 2023/2024 SEMESTER I

Course title	Basics of Sustainability
Course Code	SZE074AN
Hours/Week: le/pr/lab	2 hr/week
Credits	2
Degree Programme	All
Study Mode	*Full time*
Requirements	Midterm Mark
Teaching Period	2023/2024 I
Prerequisites	Upper intermediate level of English
Department(s)	Department of Civil Engineering
Course Director	Marcus Juby
Teaching Staff	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

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, biodiversity, 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. Sustainable Development Goals 5. Biomimicry 6. Natural building materials and techniques 7. Biodiversity 8. Consumption, waste and waste management 9. Food production 10. 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.	Introduction, Defining sustainability	Material uploaded to Teams		
2.	Environmental ethics, tragedy of the commons, limits to growth, effective altruism	Material uploaded to Teams		
3.	Population	Material uploaded to Teams		
4.	Sustainable Development Goals	Material uploaded to Teams		
5.	Biomimicry	Material uploaded to Teams		
6.	Nature based solutions for buildings	Material uploaded to Teams		
7.	*Field trip to DélKom–Waste Management	Material uploaded to Teams	*Fieldtrip*	**Important: the exact date of the fieldtrip will depend on the Delkom*
8.	Public holiday			
9.	Waste management and the circular economy/Biodiversity	Material uploaded to Teams		
10.	Food production for a growing population	Material uploaded to Teams		
11.	Test		Test	November 13th
12.	Presentations		Presentations	November 20th
13.	Presentations		Presentations	November 27th

Important: All material will be uploaded to Teams in the class materials folder

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

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, submission of homework, fieldtrip	*10 points*	*10 %*
Test	*45 points*	*45 %*
Presentation or report submission 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 14. 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