AGU Common Course
Sustainability
GLB 301

INSTRUCTOR AND ASSISTANT RECORD

Instructors	**Dr. Özgür Balkılıç, Dr. Asım Mustafa Ayten, Dr. Mehmet Celil Çelebi, Dr. Fahri Alkan, Dr. Bilge Yalçındağ, Dr. Veli Tayfun Kılıç, Dr. Evren Dinçer, Dr. Fatma Armağan Teke Lloyd**
Teaching Assistants	**Berk Kesim, Abdülkadir Gülşen, Yeliz Yoldaş, Hande Marulcuoğlu, Mehmet Furkan Baltacıoğlu, Miray Ünlü Yazıcı, Şebnem Soylu, Fevzi Can Gürüz**
Email	NA
Office Phone	NA
Office Hours	Could be arranged by AGU e-mail of the instructors
Email	CANVAS
Office Phone	NA
Office Hours	NA

COURSE RECORD

Code	GLB 301
Name	Sustainability
Hour per week	4 (Theory + Practice)
Credit	3
ECTS	4
Level/Year	Undergraduate
Semester	Fall
Type	Required
Classroom	Online
Prerequisites	NA
Special Conditions	Excess to Zoom and Canvas
Webpage	CANVAS Course Website: You will have an access for the course syllabus, materials including lecture notes, links to related websites, assignments, articles, etc. You are responsible to check Canvas on a regular basis. Exam and assignment grades will also be available at this site.
Content	This course will cover different aspects of sustainable development and aim to motivate you to develop tangible solutions with the contemporary problems of our world. In consequence order you will be introduced with the basic concepts of sustainable development and several examples of sustainability (sessions and panels) with the participation of speakers, business firms and NGOs, and local government and at the same time you will proceed to conduct a project with a team covering various aspects of sustainability. During the projects, the mentors from different departments and interest areas will provide their mentorship for your projects.
Objectives	1. Through this course our aim is to assist you to understand the nature and the crucial elements of sustainability 2. To improve your design thinking ability in order to solve real problems that global world faces 3. To assist you to develop a project that is applicable for Kayseri by using design thinking model with your team .
Learning Outcomes	You will able to 1. Develop critical thinking skills to identify and evaluate problems and

	issues related to sustainability through online sessions, panels, workshops 2. Illustrate your oral presentation skills through several presentations in expressing the stages of your projects 3. Display your team working abilities by conducting a project with a team 4. Design a project with a team by using different aspect of sustainability 5. Develop a number of important soft skills such as summarizing, analyzing, synthesizing and presenting a material
Teaching Methodology	This course will be online by using sync/asynchronous tools. This course will introduce you with variety of active teaching and learning methods such as, flipped learning, interactive workshops, peer learning, design thinking model, team based learning. Peer interaction is a crucial element for your learning, with that you will work on a joint team project of your–choice. With Your team, you will apply design-thinking model combining with the hackathon approach to conduct a tangible solution for a real problem in the world . In this course we will be using CANVAS, ZOOM, mindmeister, mentimeter and patlet software programs and websites proactively.
Reading List	TBA
Recommended Readings	TBA
Recommended Websites	TBA

ASSESSMENT

Please don't forget that it is the responsibility of students to read this syllabus carefully and to follow due dates. The course grade will be based on total accumulated points derived from learning activities. Points will be awarded as follows.

Learning Activities	**(%)**
Panel and Workshop Reflections (Two in Total)	10%
Annotated Outline	5%
Mini Conference Presentations	15%
Individual Assignment	5%
Detailed Team Reports (Two in Total)	15%
Project Prototype	15%
Project	25%
Peer Review	10%
TOTAL	100%

Grading Scale (%)			
A	90-100	C	70-72
A-	87-89	C-	64-69
B+	83-86	D+	56-63
B	80-82	D	50-55
B-	77-79	F	0-49
C+	73-76		

Most grades given during the course of the term will be based on a 100-pt scale. The **official decimal class grades** (0.0 - 4.0) will be determined from a weighted average of your individual grades. For a detailed description of grading policy and scale of AGU please refer to the website https://goo.gl/HbPM2y section 28.

ASSIGNMENTS, PROJECT PRESENTATION AND REPORT

Assignments	There will be assignments throughout the semester. The instructor(s) will announce the instructions and the due dates about assignments through CANVAS. Please, check your email accounts recorded in CANVAS regularly. Please don't forget that it is the responsibility of **YOU** to read this syllabus carefully and to follow due dates and assignments. It is very important and critical to submit your own work. If your work is found to be a copy from another students work or any sources from the web, it will be considered as plagiarism. The official university policy will be applied to those cases, which include getting zero from all assignments. **For all of your submissions please make sure to include your name and your team members if any name along with your CATXXBATXX numbers.**
Project	With your team, you are expected to develop an idea and make a project. The project is the most important components of this course and students are expected to put effort and develop a good project. Please note that you need to get out of your comfort zone and to conduct a research. In this regard, you need to read materials and talk to and interview people. A final report will be prepared according to a given report format. Selected projects will attend to a competition at the end of the semester. The project will be carried out in teams of **5 to 6 students**. The students will form the teams early in the semester. The teams should follow the specific rules to be formed; the teams should be composed of **at least two different departments** to be interdisciplinary and there should be **at least one international student** and **at most three international students** in a group**.** All team members should contribute equally to the project. **%10 of your total final grade will depend on the peer evaluation by team members**. Tentative milestones for the project can be seen at the Schedule (at the end of the syllabus). Having formed your teams, you are supposed to choose instructors to work with. While choosing them, you need to persuade each instructor about why you are willing to work with that specific person. *More detailed information about the project steps will be provided later in the class*
Late Submissions	All of the assignments are due at the scheduled dates and times. Please mark your calendar for all due dates (especially project) and follow the announcements about the assignments. **Late assignments receive a 10% deduction for each day they are late. After three days, the assignments will not be accepted.**

Communication	Please regularly check your CANVAS account for the announcements. All of the messages and announcements will be posted to AGU CANVAS
Flexibility	A tentative schedule for the entire semester is included in this syllabus. Although much thought and planning was put into the course schedule included in the syllabus, the schedule is tentative and subject to change as necessary to adapt to the specific needs of the class. Occasional departures from the schedule, such as additional readings, assignments, and activities, may be announced in class during the semester. Such announcements will take priority over the printed schedule. Therefore, it is each student's responsibility to be in class, on time, and paying attention in order to keep up-to-date with whatever changes are made in the schedule.
Feedback	Your comments and suggestions are very important and will be taken into consideration during the course. Please do not hesitate to provide feedback about the course. You can give your feedback during the class, at office hours, or through e-mail.
Academic Integrity	You are obliged to refrain from acts that they know or, under the circumstances, have reason to believe, will impair the integrity of the university or others. Violations of academic integrity include, but are not limited to, cheating, plagiarism, unauthorized multiple submissions or copying and using somebody else's paper/assignment. Any of these violations will be investigated by the discipline committee and may cause expulsion of the student from the University.

ETHICAL RULES AND COURSE POLICY

Course Policies	• English should be used at all times to communicate with one another during instruction hours. • Please, respect the allotted times provided for breaks. • Cell phones must be turned off and put away during class. Personal computers are only to be used during in-class activities and only for class assignments. Unless it is part of the lecture time activity assigned by the instructor, do not use the computer. When using the computer do not surf on the web or write personal emails, etc. Consequences include but are not limited to loss of participation points and/or being asked to leave the classroom. • Conducting personal business should be done outside of the classroom, on your own time, where it does not interfere with the learning environment of your fellow students. • Unless the class is working on an exercise, or you are interacting with the instructor, you are asked to refrain from talking after the beginning of the class. • Please be prepared, having read, written, watched and studied the assigned lessons, articles, passages, or videos; • Please be ready to write assignments in class that will be graded; and most importantly work cooperatively with other students. For the AGU Make-up policy, please refer to the website https://goo.gl/HbPM2y section 26.

Attendance Policy	Students are expected to attend all classes. Student absences in excess of 3 weeks (4 or more) will result in automatic failure (NA) in the course. It is your responsibility to come to class **on time**. You will be counted absent for your late arrival (5min). Students with medical reports, you need to submit the paperwork to your deanship of faculty in 5 days following the last day of the sick leave. (refer to : Section 27 at https://goo.gl/HbPM2y). Absence due to medical reasons cannot exceed 2 weeks. This is a student-driven course. It is your responsibility to participate actively in class discussions. You are not graded on whether you agree or disagree with the instructor or with each other. Evaluation of class participation will be based on your ability to rise and answer important issues, to contribute ideas or insights, to build upon the ideas of others, ask questions to presenters, etc. By actively participating in the class discussions, you can sharpen your insights, and those of your classmates. Both the quality and frequency of your participation will count towards your grade. Note, however, that high-quality or relevant contribution will earn you a higher participation grade than frequent but insignificant contribution. Also, you will not get any class participation points for just being present in class. Class attendance is a necessary but not a sufficient condition for scoring highly on the class participation. **It is the responsibility of each student to keep track of how you are doing on class participation by checking CANVAS several times during the semester.** For a detailed description of AGU attendance policy, please refer to the website at https://goo.gl/HbPM2y section 25.
Email Policy	When contacting the instructor or the course assistant, please use the Canvas email feature. Only use the official university mail service if Canvas is not accessible (server down, etc). Include in the subject line the course code GLB 301. If this information is not included, your email may not be answered. All announcements or warnings will be sent to your official university email address. Therefore it is the responsibility of every student to read his/her official university email address and check the CANVAS regularly.
Cheating & Plagiarism	You are responsible for knowing the University policies on cheating and plagiarism. Not giving credit to a person for their intellectual work and passing it off as your own is stealing. Specifically: • Copying or allowing someone to copy your work on an exam, homework, or in class assignment is cheating. • Cutting and pasting material from the web or any other electronic source is plagiarism. • Copying and turning in the same assignment as someone else, from

this class or from another class, is cheating. Unless explicitly told otherwise, you can discuss and problem- solve on homework together but the final product has to be your own – not just your own handwriting but your own way of explaining and organizing your ideas.

- Making superficial changes (minor additions, deletions, word changes, tense changes, etc) to material obtained from another person, the web, a book, magazine, song, etc. and not citing the work, is plagiarism. The idea is the intellectual property, not the specific format in which it appears (e.g., you wouldn't reword Einstein's theory of relativity and imply that relativity was your own idea, would you?)
- If you find material and it is exactly what you are trying to say, or you want to discuss someone's idea, give the person credit and cite it appropriately. Don't overuse citations and quotes: instructors want to know how you think and reason, not how some one else does.
- If you have any questions or concerns about whether your behavior could be interpreted as plagiarism, please ask the assistants or instructors before you submit the work.

For a detailed description of AGU policies, please refer to the website at https://goo.gl/FjLhzH

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W	Date	Topic	Assignments/Activities	
1	Oct 6	09.10 Introduction (online-synchronous) 10.00-The Presentations of Instructors (online-asynchronous)		
2	Oct 13	09.10-The E-Panel: The Sustainable Development (online-synchronous) Participants **Dr. Niğmet Uzal (AGU, The Department of Civil Engineering)** **Damla Taşkın (UNHCR, Senior Livelihoods and Economic Inclusion Officer)** **Ebru Araslan (Ministry of Environment and Urbanization)** Moderator **Dr. Özgür Balkılıç (AGU, The Department of Sociology)**	-Upload a 500 word reflection on the assigned paper to Canvas (due date: Oct 18th, 24.00) -Submit google forms (Oct 18th, 10.00-24.00)	
3	Oct 20	09.10-Team Dynamic Exercise and Forming of Teams (online-synchronous) 10.00-The Wallet Design Activity (online-synchronous) 11.00-How to conduct field surveys (online-asynchronous)		
4	Oct 27	09.10-The E-Panel: The Sustainable Development in the City of Kayseri (online-synchronous) Participants **Dr. Murat Cahid Cingi (Kayseri Erciyes Inc.)** **Mustafa Nebi Doğan (Kayseri Chamber of Industry)** **Ömer Yasin Arık (Chambers of Urban Planning)** Moderator **Sevil Togay (Abdullah Gul University)**	-Upload a 500 word reflection on the assigned paper to Canvas (due date: Nov 1st, 24.00)	
5	Nov 3	09.10-Overview of the second reflection papers (online-synchronous) Definition of the Project Problem Within Groups (online-synchronous) Conducting Field Surveys (Out of Classes)	-Submit a brief description of your project with an annotated outline of your paper and selected references (up to two pages). Your paper must include the definition of your problems, the literature review, examples and your field findings (due date: Nov 8th, 24.00) -Submit your team presentation videos. The	

			duration of videos should be between 6 to 10 minutes. The videos must include the definition of your problems (%40), the literature review (%20), examples (%20) and your field findings (%20) (due date: Nov 9th, 24.00)	
6	Nov 10	09.10-The Team Presentations (online-asynchronous) Feedback Sessions (online-synchronous)		
7	Nov 17	Fall Break	-Submit your individual solutions to the problem that you defined to discuss in your groups (due date: Nov. 22th, 24.00)	
8	Nov 24	09.10-The Contest (online-synchronous)		
9	Dec 1	09.10-Video: How to Create Many Ideas for a Problem (online-asynchronous) Ideating: Creating many ideas in ideation sessions within teams (online-synchronous)	-Submit mini-conference presentations (due date: Dec 6th, 24.00) - Submit your team presentation videos. The duration of videos should be between 6 to 10 minutes. The videos must include the definition of your problems (%20), the literature review (%10), examples (%10), your field findings (%30) and your various solutions (%30) (due date: Dec 7th, 24.00)	
10	Dec 8	09.10 The Mini-Poster session/Conference by students (online-asynchronous) Feedback Sessions (online-synchronous)	- Submit your team presentation videos. The duration of videos should be between 6 to 10 minutes. The videos must include the definition of your problems (%20), the literature review (%10), examples (%10), your field findings (%20) and your final solution (%40) (due date: Dec 14th, 24.00)	
11	Dec 15	09.10- Idea presentations in teams (online-asynchronous) Feedback Sessions in classes (online-synchronous)	-Submit your detailed preliminary report including solutions (due date: Dec. 20nd,	

			24.00) -Peer Review	
12	Dec 22	09.10- Prototype (online-synchronous)		
13	Dec 29	09.10- Prototype (online-synchronous)		
14	Jan 05	09.10- Field Test (online-asynchronous)	-Submit your last report including the feedbacks and your final solution (due date: Jan 10th, 24.00)	
15	Jan 12	09.10- The Competition (online-synchronous)		

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Dr. Özgür Balkılıç
Title: Social and Cultural Sustainability in Kayseri

Although social and cultural sustainability has drawn less attention than economic and environmental ones, main actors such as states, civil society organizations, business circles who involve in various sustainable projects has recently begun to emphasize that social dimension together with the environmental and economic are the indispensable part of sustainable development. Moreover, last debates emphasize a need to include a forth dimension, that is cultural, to the general definition of sustainability. Including the social and cultural dimensions to the sustainable development, the agenda of sustainability reaches a more comprehensive approach. Social and cultural sustainability can be defined as supporting the capacity of current and future generations to create a more healthy and livable communities and maintaining of cultural beliefs, practices and heritage conservation. Having such an approach, social and cultural sustainability encompasses various topics; such as, social equity, human rights, labor rights, social justice, cultural and religious beliefs, ceremonies, practices. In this regard, the students who choose to involve in this group will deal with several projects aiming to create a more livable society and maintaining different cultural beliefs and practices in Kayseri.

Dr. Veli Tayfun Kılıç
Title: Technologies and Methods for Sustainable Communication

Communication can be described as transferring (or sharing) information from one place, person or group to another. In the etymology studies it is mentioned that the origin of the word "communication" goes back to the Latin word "communicare", which means to share [1]. Different technologies and methods are used for communication depending on its purpose. For instance, for direct communication between people words are used. This is one of the oldest methods used by people since ancient times. In ancient times, to communicate people also utilized smoke. However, with the changes and developments in human life different technologies and methods such as text, binary codes, signs (sign language, and other signs and symbols), etc. are started to be used for communication. As an exemplary, in today's world electronic systems and devices utilize binary codes and modulation techniques for communication.

Despite all the developments and changes in human life sustainable communication is still an issue. For example, linguists can spend years to understand old inscriptions. In addition, in modern world communication of a system with a new version of it sometimes may not be possible. Therefore, it is required to develop new technologies and methods for sustainable communication. Another very important example for necessity of

sustainable communication is dead lonely people found at their homes during COVID-19 pandemic. Unfortunately, lots of people in foreign countries found dead at their homes by the officers when the curfew ended. These people could be saved if there was sustainable communication.

In this course students are expected to study on projects to analyze, design, and implement technologies and methods that will assist in sustainable communication.

[1] Dougles, H., "communication", Online Etymology Dictionary, https://www.etymonline.com/word/communication

Dr. Evren M. Dinçer

Title: Sustainable Urban Mobility

One of the key characteristics of any modern society is the dense and multiple forms of urban mobility. Citizens move around constantly for multiple purposes and use a variety of means to do so. Unsurprisingly, this previously unseen high density of urban movement causes a series of sustainability issues. Our primarily carbon-based mobility system lies at the heart of this problem and is seen as a challenge to be overcome across the world. A wide variety of urban-based alternative and sustainable mobility systems are imagined, planned and executed across the world. From improving the existing carbon-based mass-transit systems to imagining completely new and renewable energy-based systems, we are enjoying a tidal wave of sustainability research. In this module, we will explore these alternative modes and modals of mobility and develop fresh perspectives to be applied in Kayseri. Relying on rich research and findings from around the world, we will offer fresh and innovative approaches to policy makers, researchers and citizens of Kayseri.

Dr. Fahri Alkan

Title: Sustainable Energy Systems

Sustainable energy refers to the energy sources and energy storage which are not expected to be depleted in the time frame of human civilization. In today's world, the ever-increasing energy demands, as a result of expanding population, have led to serious concerns over the limited energy resources. In addition, environmental pollution and climate change, which are primarily caused by the energy consumption habits of the industrialized world, poses an unprecedented impact on our society. Therefore, the transition

to sustainable energy systems is receiving worldwide attention. Sustainable energy systems are mainly based on three core dimensions: (i) sustainable energy generation from renewable energy resources, (ii) sustainable energy consumption, which focuses on energy efficiency and conservation and (iii) sustainable energy distribution and storage, which refers to secure and easy access to energy resources. In this module, students will explore the major causes of unsustainable energy habits in our local community, and design solutions for the transition to sustainable energy systems based on these three core dimensions.

Dr. Bilge Yalçındağ

Title: Creating Pro-sustainable Change in Individuals and Institutions

Most of the difficulties our world faces today results from human behavior. Not only our behaviors, but also values, social norms or attitudes also contribute to these problems. Sustainability, as a preventive approach aims to lengthen the life of the world and increase the quality of it. Sustainability is a multifaceted concept in today's world with its economic, social, environmental, cultural, and security (peace, stability) related point of views. Once we aim to achieve a sustainable future, we may determine our problem area and then work on the attitudes, values, actions, or social norms to change it. Throughout this course we will try to understand sustainable and unsustainable behaviors. We will work on how we can implement pro-sustainable attitudes, values, actions, and behaviors by the individuals or institutions.

Dr. Armağan TEKE LLOYD

Title: Gender Equality for a Sustainable Future.

Thanks to the work of feminist activists and women's branches of international organizations we now have reached a greater awareness of the role of gender in creating sustainable futures. The point is that gender matters more than ever – not only for the betterment of women's individual conditions, but also for the prospects of economy, the environment and society writ large. The United Nations listed "gender equality" as an indispensable goal if societies want to build a sustainable, peaceful and livable world for the next generations. The involvement of major global institutions in the advocacy of gender equality in economy, work places and society have also encouraged profit-seeking commercial institutions to become engaged with the cause, with the aim of both building a better society and also to better-market their brand-name. This module will explore the linkages between gender equality and sustainability in its various facets. Our priority would be creating a campus with greater gender equality at AGÜ and think through the ways how this could create a more inclusive and peaceful society. Students are expected to develop workshops and seminars and other type of projects to promote gender equality in this module.

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Assoc. Prof. Dr. Asım Mustafa Ayten
Title: Spatial sustainability and living quality in cities together with "GLOBAL PANDEMI"

Nowadays, one of the global problems is the fight against epidemic diseases. In this context, the main purpose of the World Health Organization is to prevent the spread of these diseases and to determine a policy by establishing various stages. The (COVID 19) epidemic, which has been seen for the first time in Wuhan, China since December 2019, has reached the level of the world by 2020. To date, 26 million human virus cases have been identified and 900,000 people have died. (World Health Organization statistics, September 2020) In this context, it will be a deductive method and approach to address the causes and consequences of the emergence of the virus at the global, regional and local level (at the city level). The effects of this situation on the world economic-finance system (digital money-bitcoin, using other contactless cards instead of using money) necessitate faster capital accumulation and movements. In fact, there is a telecommunication technology oriented towards this. On the other hand, people's living habits in the city and the relations between individuals are not face to face as before, but are realized by remote access methods, and people become able to solve all their daily affairs from within a home, for example. Human interaction with space begins to change behavior patterns. This situation sometimes triggers excessive anxiety, stress and depression with the effect of other reasons. In this module, we will try to find an answer to the question that we need to design livable and sustainable cities with high quality of life, with the future of public space and the increasing importance of private spaces-houses in terms of city planning, architecture and urban design disciplines. The main theme of the group work to be done is, together with the pandemic, what kind of life quality should be in the cities. For this, there is a very extensive knowledge and research infrastructure in the literature, and with the utopias we will develop, our planet should be adapted to this situation and produce the expected solutions in the social, psychological, economic and spatial framework (shooting videos, producing a text of policies, another outputs such as developing narrow projects, sample case studies on socio-psychological structure) are the most important multiplier effect of this module.

Dr. Mehmet Celil Çelebi

Title: Sustainability and Participatory Democracy

The problem of sustainable development is a multi-level one. First level is a global one that has to be addressed via international organizations. The second level belongs to the most important actors, nation-states that address to problems within their territory using their sovereign authority. The third level is the local level where small but meaningful change is easier to accomplish. In the last decades, many scholars and activist argued that sustainability problems regarding ecological, economic and social problems are best dealt with through participatory democracy, that is, where ordinary citizens are constantly engaged with the planning and implementation of policies. At the local level, there has been a number of interesting and successful examples ranging from community policing in Chicago

in USA to People's Budget's in Porto Allegre, Brazil. In this group, we will seek to produce similar, bottom-up projects that serves long-term sustainability goals, either in local level where successful examples are already available or higher levels where direct engagement of citizens are more difficult but potentially valuable.