

### INSTRUCTOR(S)/TA(s) RECORD

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Office Hours	In response to the developing situation with covid-19, Office Hours for fall will take place online only via zoom. Please contact me via email to arrange one.

### COURSE RECORD

Code	ECON 222
Name	Economics for Engineers
Hour per week	3
Credit	3
ECTS	4
Level/Year	Undergraduate
Semester	Fall
Type	Obligatory and elective
Classroom	
Prerequisites	Non
Special Conditions	You should have <ol style="list-style-type: none"> <li>1. A stable internet connection for the synchronous Zoom sessions.</li> <li>2. A stable computer</li> <li>3. Access to CANVAS and Zoom</li> </ol>
Webpage	For this course I will be using CANVAS Course Website. You will access the course syllabus, course materials including lecture notes, links to related websites, assignments, articles, etc from CANVAS. You are responsible to check Canvas on a regular basis. Information about exams and assignment grades will also be available at this site.
Content	While the developments in engineering are governed on the one hand by their own inherent logic, the demand and supply for engineering goods and technological innovations are on the other hand also dependent on economic factors. The course will familiarize engineering students with the basic concepts of microeconomics emphasizing topics of special interest for manufacturers and technology companies. These include preferences, different production and cost functions, market structures, externalities, categories of goods. It will also address some macroeconomic topics which are essential to understand the modern economy. These concepts will help engineering students to act successfully in a competitive environment and to understand the consequences of their work in a wider economic framework.
Objectives	The course aims to. <ul style="list-style-type: none"> <li>- Introduce students to economic thinking.</li> <li>- Familiarize students with basic microeconomic models.</li> <li>- Provide basic tools to analyze products and markets from an economic point of view.</li> <li>- Sensitize students to the economic aspects of global issues, e.g. economic problems.</li> </ul>

Learning Outcomes	<p>By the end of this course students will be able</p> <ul style="list-style-type: none"> <li>- 1) to explain variations of basic economic models.</li> <li>- 2) to analyze products and markets using basic economic models.</li> <li>- 3) to analyze some global issues, like environmental problems and common resources, from an economic point of view.</li> <li>- 4) to discern between positive and normative economic questions.</li> </ul>
Teaching Methodology	<p>In response to the developing situation with covid-19, our course will be offered in an online format. For asynchronous sessions CANVAS and for synchronous sessions Zoom will be used. We will be using various tools for active learning to take place. This is also 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 active participation grade. Please note 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.</p>
Reading List	<p>Karl E. Case, Ray C. Fair, Sharon M. Oster: Principles of Economics, 13th ed., Pearson: 2020          Taylor, Timothy; Shapiro, David; Greenlaw, Stephen A.: Principles of Economics 2e, Open Stax, Rice University, 2018, Download for free at <a href="https://openstax.org/details/books/principles-economics-2e">https://openstax.org/details/books/principles-economics-2e</a> .</p>
Recommended Readings	Will be posted to CANVAS
Recommended Websites	Will be posted to CANVAS

### COURSE POLICIES

Late Submissions	<p>All of the assignments are due at the scheduled dates and times. Please mark your calendar for all due dates (especially project timeline) and follow the announcements about the assignments. <b>Late assignments receive a deduction of points and are not accepted after a certain time (depending on the type of assessment).</b></p>
Communication	<p>Please check your AGU e-mail for the announcements. All of the messages and announcements will be sent via CANVAS to your AGU e-mail addresses. Therefore, it is the responsibility of every student to read his/her official university email address and check the CANVAS regularly. When contacting the instructor, please use your AGU account and include in the subject line the course code. If this information is not included, your email may not be answered.</p>
Attendance Policy	<p>Students are expected to attend all asynchronous / synchronous times. Student absences in excess of 30% will result in automatic <u>failure</u> in the course. That means there is a minimum attendance of 70%. It is your responsibility to come to class <b>on time</b>.</p>

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	<p>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 <a href="https://goo.gl/HbPM2y">https://goo.gl/HbPM2y</a>). Absence due to medical reasons cannot exceed 2 weeks. <b>It is the responsibility of each student to keep track of how you are doing on class participation by checking with the instructor several times during the semester.</b> For a detailed description of AGU attendance policy, please refer to the website at <a href="https://goo.gl/HbPM2y">https://goo.gl/HbPM2y</a> section 25.</p>
Academic Integrity	<p>Students 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.</p>
Ethical Rules	<ul style="list-style-type: none"><li>• English should be used at all times to communicate with one another during the a / synchronous hours.</li><li>• Please, respect the allotted times provided for breaks.</li><li>• Distractive tools such as cell phones must be turned off and put away during the synchronous hours.</li><li>• In synchronous hours, computers should not be used to surf on the web or conducting personal business.</li><li>• Personal business should be done outside of the synchronous hours on your own time, where it does not interfere with the learning environment of your fellow students.</li><li>• Please be prepared, having read, written, watched and studied the assigned lessons, articles, passages, or videos before the course sessions.</li><li>• Please be ready to submit assignments on time</li><li>• And most importantly please prepare to work cooperatively with other students.</li></ul>
	<p><i>For the AGU Make-up policy, please refer to the website <a href="https://goo.gl/HbPM2y">https://goo.gl/HbPM2y</a> section 26.</i></p>
Cheating & Plagiarism	<p>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:</p> <ul style="list-style-type: none"><li>• Copying or allowing someone to copy your work on an exam, homework, or in class assignment is cheating.</li><li>• Cutting and pasting material from the web or any other electronic source is plagiarism.</li><li>• 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.</li><li>• 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?)</li><li>• 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</li></ul>

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overuse citations and quotes: instructors want to know how you think and reason, not how someone 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>*

Flexibility	A tentative schedule for the entire semester is included in this syllabus. Although much thought and planning were 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 or via canvas during the semester. 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. In addition, with the assistance of Teaching and Learning Center we will run mid-term and end of term feedbacks.

#### LEARNING ACTIVITIES

Activities	Number	Weight (%)
Zoom Synchronous meeting	14	12,7%
Asynchronous Activity: Pre-class activities)	14	31,8%
Required Readings	14	12,7
Research	6	8,2%
Pre-work for midterm and finals	6	10,9%
Team Project .....	1	23,6%
	TOTAL	100%

#### ASSESSMENT

Evaluation Criteria	Weight (%)
Midterm (sequence of online quizzes)	25%
Homework / Weekly assignments	10%
Team Project Assignments & Presentations	25%
Active Participation	15%
Final Exam	25%
	Total 100%

For a detailed description of grading policy and scale, please refer to the website <https://goo.gl/HbPM2y> section

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#### COURSE LOAD

Activity	Duration (hour)	Quantity	Work Load (hour)
In class activities	1	14	14
Pre- class activities	2.5	14	35
Team work / project	26	1	26
Research (web, library)	1.5	6	9

Required Readings	1	14	14
Pre-work for midterm and finals	2	6	12
<b>General Sum</b>			<b>110</b>

ECTS: 4 (Work Load/25-30) As an example the workload is 93hr. Top /25-30

**CONTRIBUTION TO PROGRAMME OUTCOMES\***

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10				
LO1	4	4	4	4	4	3	4	3	4	3				
LO2	4	4	4	4	2	3	2	2	3	2				
LO3	4	4	2	4	5	2	4	2	4	3				
LO4	3	4	3	4	5	2	3	2	3	2				

\* Contribution Level: 0: None, 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

**WEEKLY SCHEDULE**

W	Topic	Outcomes
1	Introduction Activity: Readings, in-class-activities	LO1
2	Theory of Consumer Choice Activity: Readings, in-class-activities, pre-classs activities, project, research	LO1, LO2
3	Production Function and Cost Function Activity: Readings, in-class-activities, pre-classs activities, project, research	LO1, LO2
4	Firms in Competitive Markets Activity: Readings, in-class-activities, pre-classs activities, project, research, pre-work for midterm and finals	LO1, LO2
5	Market Forces of Demand and Supply Activity : Readings, in-class-activities, pre-classs activities, project, research, pre-work for midterm and finals	LO1, LO2
6	Welfare Theory Activity: Readings, in-class-activities, pre-classs activities, project, research, pre-work for midterm and finals	LO1, LO2, LO4
7	Lecture Free Week Activity: Readings, in-class-activities, pre-classs activities, project, research	LO2
8	Market Failures: Externalities Activity: Readings, in-class-activities, pre-classs activities, project, research	LO1, LO2, LO3, LO4
9	Market Failures: Public Goods and Common Resources Activity: Readings, in-class-activities, pre-classs activities, project, research	LO1, LO2, LO3, LO4
10	Monopoly Activity: Readings, in-class-activities, pre-classs activities, project, research	LO1, LO2, LO3, LO4
11	Monopolistic Competition Activity: Readings, in-class-activities, pre-classs activities, project, research,	LO1, LO2
12	Oligopoly Activity: Readings, in-class-activities, pre-classs activities, project, research, pre-work for midterm and finals	LO1, LO2
13	Introduction to Macroeconomics: Circular Flow Model Activity: Readings, in-class-activities, pre-classs activities, project, research, pre-work for midterm and finals	LO1, LO2
14	Money and Inflation Activity: Readings, in-class-activities, pre-classs activities, project, research, pre-work for midterm and finals	LO1, LO2

**AGU Faculty of Managerial Sciences**  
**Department of Economics**  
**Economics for Engineers**  
**ECON 222**

