

Course Syllabus Data Science DSBE517 Decision Making

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Course days and hours: Labs: None Location: Course Credit:

Prerequisites: Microeconomics

Course Description: The course requires a good quantitative background and uses analytical tools. The course covers decision making theories in detail and their applications including both single-person and multi-person strategic environments. It discusses rationality assumption and bounded rationality by addressing the evidence from the field and experimental data. The students are expected to get deeply involved in the discussion during the lectures and to write an academic paper on a topic of their choice relevant to decision making. The course is designed to write a future publishable research paper at masters level.

Required Textbook/s: Selected Papers

Additional Resources:

Learning Objectives and Outcomes:

By the end of this course, students will be able:

- 1. To evaluate Rational Decision Theory, its limits and Bounded Rationality.
- 2. To apply strategic decision theory
- 3. To understand psychological foundations of decision making

Teaching Methodology:

Learners will be provided with as much opportunities of hands-on practice as possible with the aim of striking a balance between learner-centeredness and sufficient guidance. Various forms of interaction (i.e. pair work and group work) will also be encouraged to cater for learners with different learning styles. Additionally, individuals will be expected to produce both in-class writings and homework assignments in addition to the reading tasks, which will encourage them to reflect and think critically. Technology will also be incorporated into the classroom procedures in order to create a better learning environment.

Evaluation Criteria	<u>Percentage</u>
Presentations	10%
Term Paper Drafts	20%
Term Paper	50%
Participation and attandence	20%

Grade Distribution: Final grades are based on the following

Total: 100%

Grading Scale:

	0	
А	4,00	90-100
A-	3,67	87-89
B+	3,33	83-86
В	3,00	80-82
B-	2,67	77-79
C+	2,33	73-76
С	2,00	70-72
C-	1,67	64-69
D+	1,33	56-63
D	1,00	50-55
F	0,00	0-49

For a detailed description of grading policy and scale, please refer to the website <u>https://goo.gl/HbPM2y</u> section 28.

Course Policies:

- For the AGU Make-up policy, please refer to the website <u>https://goo.gl/HbPM2y</u> section 26.
- Please, no eating in class
- 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 lab times 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, extra assignments, and/or being asked to leave the classroom.
- Please, bring the required materials, including textbooks and notebooks.
- Please be prepared, having read, written and studied the assigned lessons, articles, or passages;
- Please be ready to write assignments in class that will be graded; and most importantly work cooperatively with other students.

Attendance Policy:

- Be in the class on time (being late for class is an extreme annoyance to the entire class).
- Class attendance is strongly recommended and will count toward your participation grade. Regular class time will include informal assessment activities for which points will be assigned. Participation in these activities will

help you prepare for exams and homework and also provide me with feedback on your progress.

• For a detailed description of AGU attendance policy, please refer to the website at <u>https://goo.gl/HbPM2y</u> section 25.

Email Policy:

When contacting the instructor or the course assistant, please use the Canvas email feature. Only use my firstname.lastname@agu.edu.tr if Canvas is not accessible (server down, etc). Include in the subject line the class and section number (CISXXX, Section XXXX). If this information is not included, your email may not be answered. Any announcements or warnings will be send to your AGU e-mail. Therefore it is the responsibility of every student to read his/her AGU e-mails and CANVAS emails regularly. AGU webmail can be accessed through <u>https://mail.agu.edu.tr</u>

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:

- 1) Copying or allowing someone to copy your work on an exam, homework, or in class assignment is cheating.
- 2) Cutting and pasting material from the web or any other electronic source is plagiarism.
- 3) 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.
- 4) 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?)
- 5) 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 me before you submit the work.

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

Course Outline:

Week	Торіс	Term Paper, Assignments
1st	Introduction and Overview	
2nd	Rational Decision Theory	Literature Review
3rd	Consumer theory, Expected Utility Theory	Selected Literature Review
4th	Decision Making Under Risk, Prospect Theory	Term Paper topic selection
5th	Endowment Effect, Anchoring	Term paper literature submission
6th	Game Theory Premier	Presentation
7th	LFW	
8th	Experimental Method	Term Paper First Draft
<mark>9th</mark>	Spring Break	Spring Break
10th	Time Preferences	Experimental Literature Review
11th	Social Preferences	Emprical Literature Review
12th	Deviation from Rational Theory and Psychology	Term Paper Draft Feedback
13th	Bounded Rationality, Biases and heuristics	Term Paper Second Draft
14th	Neuroeconomics& System 1 and 2 Theory	Discussion of Results
15th	Presentations & Review	Presentation of Term Paper
<mark>16th</mark>	<mark>Final Exam Week</mark>	Submission of Final Term Paper