



Dept of Economics
UNIVERSITY OF CRETE

SYLLABI OF SEMINAR COURSES

ACADEMIC YEAR
2026/2027

Rethymno, 11 September 2026

SPECIAL TOPICS IN ECONOMETRICS - OIK4101

Instructors

Tsiotas Georgios

Course webpage

http://econservices.soc.uoc.gr/econ_classes/enrol/index.php?id=42

Primary textbook

Supplementary material

<i>Workload (in hours)</i>	Lectures	Tutorials	Individual study	Total
	39	0	111	150

Lectures

SPECIAL TOPICS IN INDUSTRIAL ORGANISATION - OIK4201

Course objectives

The main purpose of this seminar course is to give students the opportunity to deepen their understanding of issues in Industrial Organization, and more specifically in Competition Policy. The seminar is conducted over thirteen (13) weeks of meetings. Attendance at the meetings is mandatory. Students are divided into groups. Each group is assigned to present a case study, preferably drawn from the Greek or European context, as well as the relevant theoretical framework in the field of Competition Policy to which the case study belongs.

Instructors

Lioukas Konstantinos

Course webpage

https://econservices.soc.uoc.gr/econ_classes/enrol/index.php?id=379

Prerequisites

Sufficient knowledge of Microeconomic Theory (as in OIK1005, OIK2002), and Industrial Organization (as in OIK3201).

Learning outcomes and general competencies

Upon successful completion of the seminar, the student will be able to:

- Develop a thorough understanding of the necessity and usefulness of Competition Policy at both national and European levels for improving market functioning and increasing social welfare.
- Collect information from bibliographic sources and the internet for a case study related to the above topics.
- Study and analyze the specific case study.
- Present the conclusions of this case study to an audience in a critical manner.
- Prepare a paper in which the case study and the conclusions drawn from it are presented in detail and critically analyzed.
- Understand and provide written and oral critical feedback on classmates' presentations.

The general skills that the student will acquire upon completion of the seminar are:

- Independent critical thinking.
 - Collection of data for a case study.
 - Critical presentation of a case study.
 - Writing of a group assignment/project.
 - Providing commentary on presentations by other speakers.
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Assessment

Written assignment: The assignment will concern a case study, preferably from the Greek or European context, which has recently been examined by the relevant national or European Competition Commission. The written assignment submitted at the end of the semester should include the following sections:

1. The first part of the assignment will briefly develop the theoretical framework within which the specific case study falls.

2. The second part will provide information on all parties involved and will present the decision, as well as the reasoning behind it, of the Competition Commission.
3. The third part will contain a critical analysis of this decision based on economic theory, as well as an ex post evaluation of the correctness of the decision.
4. Students must propose a specific topic for their assignment no later than the third meeting. Topics that have been analyzed during the previous two years are not permitted. More information regarding the structure of the assignment will be posted on the course website.

Indicative Assignments from Previous Years:

- The merger of Aegean Airlines and Olympic Air.
- The acquisition of Skype by Microsoft.
- Abuse of dominant position and monopoly power by Google.
- Air France–KLM: A multidimensional merger.
- Study of the acquisition–merger between National Bank of Greece and Eurobank.

Oral Examination: The PowerPoint presentations of the assignments take place during the final two or three weeks, with each group being allocated 30 minutes for the presentation plus an additional 10 minutes for questions/comments from the audience. The PowerPoint presentations are uploaded to the appropriately configured online course space on Moodle at least ten days before the live presentation. Each group must study the PowerPoint presentations of the other groups and prepare comments/observations before the day of the live presentation. These comments are uploaded to the course website after being appropriately revised in light of the presentations of the other groups. Following the presentation, each group, after taking into account the comments, observations, and suggestions regarding its topic, appropriately revises the final text of the assignment and uploads it to the course website no later than the end of the examination period.

The final course grade is based on:

- 50% on the final written version of the assignment,
- 30% on the PowerPoint presentation,
- 20% on the written and oral comments made by the group on the assignments of the other groups.

Assessment is based on the extent to which the student demonstrates knowledge of the assigned case study, the ability to present it to an audience, the ability to write the final version of the assignment, and finally, the ability to understand and comment on the presentations of fellow students.

<i>Tutorial sessions</i>	There are no tutorials for this course.
<i>Primary textbook</i>	Motta, M. (2004). Competition Policy. Theory and Practice , Cambridge University Press,
<i>Supplementary</i>	Belleflamme, P. and Peitz, M. (2009). Industrial Organization: Markets and

<i>Workload (in hours)</i>	Lectures	Tutorials	Individual study	Total
	39	0	111	150

Lectures

Weeks 1-2:

- General reference to related theoretical issues in Industrial Organization and Policy, and in particular to the theory and objectives of Competition Policy.
 - Indicative topic areas are presented so that students can choose the subjects they will propose at the next meeting.
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3rd Week:

- Final selection of the groups and the topics assigned to each group.
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4th Week:

- First brief presentation of the topics assigned to each group, so that all groups are informed about the topics of the other groups. These initial presentations may be delivered either orally or with the use of PowerPoint.
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Weeks 5-7:

- Discussion of the progress of the group projects and interaction among the groups in order to identify and analyze issues of common interest.
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8th Week:

- Second, more detailed presentation of the groups' topics. It is recommended that these presentations be delivered using PowerPoint.
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Weeks 9-10:

- Further discussions regarding the progress and improvement of the group projects.
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Weeks 11-13:

- Final presentation of the projects, which must be delivered using PowerPoint.
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INTRODUCTION TO PRIMARY MARKET AND OPINION RESEARCH - ΣΚΕ4201

Course objectives

The course introduces students to the processes of primary research, with emphasis on quantitative data that capture opinions, trends, and preferences, which are collected and managed using appropriate methods to ensure correctness and accuracy. Further, the course moves on to data analysis based on established techniques to ensure the validity of the conclusions. As part of the course, students are initially required to attend theoretical training lectures on topics related to market research and opinion research. Then a role-play is developed, where students are asked to act as professionals involved in the survey process under the guidance of a supervisor to develop a comprehensive result for a stakeholder (institution or company). Thus, they are asked to conduct primary survey (as a laboratory exercise), independently analyse the results, write a technical report, and create an effective presentation of their key findings.

Course webpage

https://econservices.soc.uoc.gr/econ_classes/course/view.php?id=493

Prerequisites

A prerequisite for the course is that the student should be familiar with the basic concepts of Inferential Statistics and be fluent in the use of specialized applications for statistical analysis. It also requires proficiency in the use of office suite applications.

Learning outcomes and general competencies

Upon successful completion of the course, the students will have acquired knowledge of the following:

- statement of the stakeholder's requirements for the survey,
- identification of the problem,
- choice of data collection methodology,
- primary survey design,
- data collection,
- data processing and management,
- analysis of the results and drawing conclusions,
- writing a technical report, and
- presentation of results.

The general competencies that the student will acquire upon completion of the course are:

- Use of tools and technologies.
- Adapting to new situations.
- Decision-making.
- Teamwork.
- Autonomous work.

Assessment

The evaluation is based on 3 axes:

- The first axis concerns the understanding of the theoretical lectures ascertained through multiple-choice questions per lecture. The process is carried out through the e-learning platform hosting the seminar material. The weight of the axis is 10% of the total grade.
- The second axis concerns student participation in conducting primary research as a laboratory exercise. The weight of the axis is 40% of the total mark.
- The third axis aims to produce targeted results and involves writing a technical report that captures the research process, data analysis, conclusions and recommendations to the stakeholder, as well as creating a short video presentation of the findings. The weight of the axis is 50% of the total mark.

Assessment on the first two axes is dichotomous (pass-fail).

The assessment of the third axis is captured on a 0-10 rating scale. The score is based on the quality of the deliverables (technical report and video presentation) relative to what is expected of a practitioner in the field.

<i>Tutorial sessions</i>	Not offered.
<i>Supplementary material</i>	Siomkos C. I. and Mavros D. A. (2008). Market Research , Stamoulis Publications, Athens (in Greek).
	Stathakopoulos, V. (2005). Market Research Methods , Stamoulis Publications, Athens (in Greek).
	Malliaris, P. (2001). Introduction to Marketing , Stamoulis Publications, Athens (in Greek).
	Kotler P. (2000). Marketing Management (The Millennium Edition) , Prentice Hall International, Inc.,

<i>Workload (in hours)</i>	Lectures	Tutorials	Individual study	Total
	47	0	102	149

<i>Lectures</i>	Week 1: Introduction – Data and Decision Making
	Week 2: Survey Process - Design, Types, Reasons for Failure
	Week 3: Qualitative Market Research
	Week4: Data Collection Design

Week 5: Sampling

Week 6: Measurements and Statistical Analysis

Week 7: Implementation and Results

Week 8: LAB - Preparation and Familiarisation with the Equipment for Conducting Survey

Weeks 9 -10: LAB - Conducting Primary Telephone Survey (4-5 shifts)

Weeks 10 - 12: Management and Analysis of Results, Drafting a Technical Report, Creating a Video Presentation

Week 13: Submission of Technical Report and Video Presentation of Results

LABOUR ECONOMICS II - OIK4105

Course objectives

The objective of this seminar is to profoundly revise and extend the learning material of the course Labour Economics (OIK 3111) by means of a written assignment/working paper – under the tutor’s directive assistance – on the part of each student (or a number of students working in a group) on topics regarding various Microeconomic and Macroeconomic aspects of the contemporary labour markets

Course webpage

http://econservices.soc.uoc.gr/econ_classes/enrol/index.php?id=43

Prerequisites

Sufficient knowledge of – fundamental – Microeconomics & Macroeconomics, and basic skills of differential calculus and analytical geometry. However, if a selection procedure is needed for the limited seminar slots (up to 21) be allocated to the interested students, priority would be given to those who have successfully completed the course Labour Economics (OIK 3111)

Learning outcomes and general competencies

On successful completion of their written assignments, students will be able to:

- Unfold and identify their working issue by coherently relating it with the real life’s stylized facts.
- Systematically trace out – by means of descriptive statistics and graphs – the data which may identify the major causes, as well as the most significant parameters, of the phenomena under examination.
- Work out an extensive review of the relevant theoretical and/or empirical literature.
- As much analytically develop a basic model, and enrich their documentation by also referring to alternative models, which can tentatively explain the real life’s stylized facts
- Deduct conclusions by – as above – combining theoretical and empirical documentation, and spell out relevant public policies which may be used.
- Propose an issue, or a topic, to be further examined, as well as the methodology of approaching it, based upon the findings of their ongoing study/assignment.
- By means of a Power Point Presentation, present and explain in the classroom the – as above – main ingredients of their work, as much informatively answer to the audience’s raised questions, and evaluate/incorporate the relevant comments made up, in order to improve their written assignment’s final draft.

Regarding the acquired general skills, students will be able to:

- Search, analyze, combine and compose, data and information elements, by making use of the available tools and technology.
- Work collectively
- Adapt to new circumstances

- Produce ideas for/design further research

Assessment

Seminar requirements

The seminar is structured across 13 weeks. Attendance in any week is compulsory for all students. The assignments undertaken by the students can be: **(a) Personal**/student specific. **(b) Collective**/group specific. An assignment can be in the form of: **(i) a theoretical** working paper, that is to deal with a specific topic in theory – by means of either constructing a simple model, or simulating a model contained in a published paper, or performing an extensive survey of the relevant literature – **(ii) a (small) empirical** project, where students must identify and explore the evolution and the trends of critical dimensions and outcomes of the labour market in some particular sector, region, or national/international macroeconomic entity (for example, the Euro zone), and evaluate their findings on the basis of the economic theory.

Assessment

- The case (i) assignments must be in pdf, with text and (wherever applies) diagrammatical and mathematical analysis incorporated in the same file. The case (ii) assignments must be in ppt – with graphs of descriptive statistics – and incorporated text in the same file.
- The assignments' presentations in the classroom are taking place during the seminar's last three weeks, and any student or working group has up to 30 minutes, for the presentation, and up to 20 minutes to respond/answer to comments/questions raised by the audience.
- After the presentation in the classroom, every student/working group – considering the comments/questions raised by the audience as well as the tutor's suggestions – must prepare the final version of his/her/their written assignment and upload it to the seminar's electronic page till the end of the relevant examination period (i.e., by the end of June when the seminar is held during the Spring semester). In this final version, any comments/suggestions raised during the presentation, as well as any amendments made in response, must have been incorporated in a separate section/appendix
- The students' final grade for the course/seminar is based upon assessment of: 20% for the comments/suggestions made to their colleagues' assignments, 30% for the presentation in the classroom, and 50% for the written assignment (per se).
- In case that the final version of the written assignment is delayed/delivered after the end of the relevant examination period, it will be considered for assessment in the second examination period (i.e., in September), and charged by a penalty equal to (minors) 30% of the final grade.

Directions for a written assignment

Case (i) – theoretical working papers

- The first part of the working paper must clearly raise the issue to be examined and, as much as possible, relate it to real –life stylized facts.

- The second part of the working paper must contain an informative survey of the relevant scientific literature.
- The third part of the working paper must analytically present the basic model or (in the case(s) of a literature-survey, or of a model-simulating, working paper) the most influential models regarding the theoretical reasoning/ explanations behind the real –life stylized facts.
- The third part of the working paper must present the findings of the foregoing analysis, and possibly suggestions for further research.

Case (ii) – (small) empirical projects

- The first part of the empirical project must specify the issue as well as the field and the time span of the proposed investigation (for instance, examining the unemployment trends in the region of Crete, 2000-2017). It must also contain a short presentation of the theoretical framework on the basis of which the emerging facts and trends can be explained.
- The second part of the project must contain a review of the available empirical contributions which are relevant with the project's issue.
- The third part of the project must extensively present – by use of descriptive statistics graphs and indicators – the stylized facts which identify the major dimensions of – and causes behind – the examined phenomena. For that, the students must search for and retrieve original data from various data sources
- The fourth part of the project must present the findings of the foregoing research – and coherently suggest possible policies – by means of a SWOT analysis format.

<i>Tutorial sessions</i>	Not offered.
<i>Primary textbook</i>	Lianos, Th. & Daouli-Demousi, A. (1998). Labour Economics , Benos Publishing, Athens (in Greek).
	Layard R., Nickell, S. Jackman, R. (1993). Unemployment: Macroeconomic Performance and the Labour Market , Oxford University Press, Oxford.
	Booth, A. (1996). The Economics of the Trade Union , Cambridge University Press, USA.
	(2016). Lecture Notes (in Greek) on Labour Economics (OIK3111) by the tutor (can be found in the course's electronic page) , Rethymno.
	Ehrenberg, R. & Smith, R. (2017). Labour Economics, Modern Approach to

<i>Workload (in hours)</i>	Lectures	Tutorials	Individual study	Total
	52	0	88	140

Lectures

Week/Lecture 1 - Week/Lecture 7:

- Determination and Allocation of the assignments' themes/topics, across students/groups of students, foundation of the necessary learning material – by means of focused lectures in the classroom – directions and assistance for research, etc.

Week/Lecture 8 - Week/Lecture 10:

- Classroom meetings for monitoring and evaluating the assignments' working progress, provision of further guidance, information and directions on the part of the tutor.

Week/Lecture 11 - Week/Lecture 13:

- Presentation in the classroom of the first version of all written assignments, comments/suggestions, on the part of the audience, points of attention and suggested corrections on the part of the tutor.
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ECONOMIC GROWTH II - OIK4106

Instructors

Kalaitzidakis Pantelis

*Workload
(in hours)*

Lectures

39

Tutorials

0

Individual study

111

Total

150

Lectures

SPECIAL TOPICS IN ECONOMIC THEORY - OIK4301

Instructors

Milonakis Dimitris

Course webpage

http://econservices.soc.uoc.gr/econ_classes/enrol/index.php?id=56

Workload (in hours)

Lectures

39

Tutorials

0

Individual study

111

Total

150

Lectures

POLITICAL ECONOMY OF THE AGRICULTURAL SECTOR II - OIK4303

Course webpage

http://econservices.soc.uoc.gr/econ_classes/course/view.php?id=58

Primary textbook

*Workload
(in hours)*

Lectures

46

Tutorials

0

Individual study

119

Total

165

Lectures

COMPUTERS III - OIK4501

Course objectives

The purpose of the seminar is for students to apply the tools they have acquired in the courses of Computers, Statistics and Econometrics to an economic question of their choice. In the lectures that take place during the semester, an attempt will be made to apply economic theory to the study of the behavior of statistical data or estimators under different types of data and sample sizes. Part of the seminar will be devoted to the presentation of commercial and open-source software that students should adopt as analytical tools. Participants in the seminar will have the option of collecting data using questionnaires if they do not want data from relevant databases. The seminar is addressed to students who are interested in deepening their knowledge in applied statistical research and the possibilities of utilizing new innovative software and techniques. In addition, in the seminar will be used a LIMESURVEY server - open-source software. Using this software as a vehicle, students interested in this kind of research will be able to write surveys using questionnaires in real time.

Instructors

Drakos Periklis

Course webpage

http://econservices.soc.uoc.gr/econ_classes/enrol/index.php?id=6

Prerequisites

A student, in order to attend the seminar, it is necessary to have familiarity with computers, knowledge of the English language as well as with statistics and statistical tests of hypotheses. Familiarity with the multiple linear regression model and coefficient testing with linear constraints is also required. Due to the nature of the seminar, which concerns a large part of statistics and econometrics courses, it is required that the students applied, to have successfully completed the courses: Statistics II (ECON1006), Computers II (ECON2501), Econometrics I (ECON2003) and Mathematics I (ECON1001).

Learning outcomes and general competencies

Upon successful completion of the course, the student will be able of the following:

- Students have used extensively statistical analysis software (commercial and open source) and comprehend their connection with statistics, econometrics and courses that make wide use of quantitative and qualitative analysis in economics.
- Students acquired knowledge of the principles of statistical and econometric software from a theoretical and practical point of view.
- They are able to describe and interpret complex results of statistical concepts, hypothesis tests and specific econometric problems.
- Be able to design a questionnaire.
- Be able to draw up, codify and analyze a questionnaire of quantitative and qualitative survey.
- Search, analysis and synthesis of data and information, using the necessary technologies.
- Promotion of free, creative, and inductive thinking and writing.

Assessment

The evaluation of the students will be done in combination with the written assignment and the oral presentation of the results in class. The oral presentation will take place in the last two weeks of the course (with the mandatory use of presentation software), while the written assignment must be delivered on the last day of the regular examination period of the Department. The written assignment includes the following steps:

- Finding a topic related to the economic literature (Econlit).
- Find literature related to the topic.
- Finding data to do the empirical analysis. Analysis and interpretation of results.
- Presentation and writing of empirical work.

The work should concern the study of an economic or statistical problem or a method of estimation-analysis of data under real market conditions. For the realization of the assignment, students may write the required code in HTML, Eviews, SPSS, Gretl, R which will include the execution or calculation of specific statistical data that summarize the results and graphs. This code will be part of the written work as an appendix and not in the main text. Students must propose a specific topic for their work during the first meetings. Work items given in the previous two years are not allowed. The written assignment that will be delivered at the end of the semester should include the following parts:

- Summary: The purpose of the empirical work will be described.
- Theory: Basic hypotheses of the economic problem or research. Description of the effects arising in the analysis-assessment of the data.
- Description of the analysis: models, parameter values, sample size, number of simulations, etc.
- Results: tables, graphs, comments. Conclusions of empirical work.
- Bibliography.
- Annex with code used or software commands.

Tutorial sessions

Not offered.

Primary textbook

Supplementary material

Workload (in hours)

Lectures
47

Tutorials
30

Individual study
83

Total
160

the seminar.

- Basic operations and creation of complex data files. Basic functions and mathematical constants.
 - Series Transformations, Functions, and Dynamic Charts
 - Types of variables and parametric analysis. Series transformations and statistical functions. Functions of random variable distributions.
 - Dynamic graphs: plot and histograms.
-

Process of Empirical Research, description, and objectives of the seminar.

- Basic operations and creation of complex data files. Basic functions and mathematical constants.
 - Series Transformations, Functions, and Dynamic Charts
 - Types of variables and parametric analysis. Series transformations and statistical functions. Functions of random variable distributions.
 - Dynamic graphs: plot and histograms.
-

Econometric software for Advanced users I

- Creation of matrices and operations with matrices.
 - Import data from text files (problems - techniques). Econometric problems.
 - The use of the LS function to estimate the multiple linear regression model.
-

Econometric software for Advanced users II

- Residue checks. Stability tests.
 - Statistical Tests of Autocorrelation - Heteroscedasticity. Trends and Moving Average.
-

Econometric software for Advanced users III

- Use of pseudo-variables and problems. The problem of cointegration. Time series and unit root tests.
 - VAR models
 - VECM Models - ARDL
-

PANEL Data - Discussion on the Progress of Work

- Import and transform data.

Systems of Equations and Presentation of Different Estimation Methods

- Systems of Equations - Example of a Demand System. SURE estimation.
- Imposition and incorporation of constraints on equations. Progress of work and questions.

Qualitative variables in field surveys.

- Construction and coding of questionnaires.
 - Construction of online surveys with code on the LimeSurvey server.
 - Export data from LimeSurvey to commercial and open-source software.
- Automatic descriptive analysis of questionnaires.

Multivariate Analysis of Questionnaire Results

- Correlations of quantitative and non-quantitative variables. Variance analysis of repeated measurements.

Presentation of open and commercial PRESENTATION software.

DATA COLLECTION, MANAGEMENT AND ANALYSIS - OIK4203

Course objectives

This seminar course introduces students to the process of designing and conducting primary research, with emphasis on the collection, management, analysis and interpretation of data that capture opinions, attitudes, trends and preferences. Particular emphasis is placed on the proper formulation of the research problem, the selection of appropriate data collection and sampling methods, ensuring data quality, and transforming results into evidence-based findings useful for decision-making. Artificial Intelligence (AI) is used as a supporting tool for data management, exploration and analysis, as well as for the production and communication of results, with well-justified choices and critical validation of the conclusions generated.

In the framework of the seminar, students initially attend lectures providing theoretical and methodological training. A role-playing exercise then follows, in which they act as members of a professional research team that, under the guidance of a supervisor, is assigned to produce a comprehensive outcome for a stakeholder (institution or company). All students jointly participate in the design and conduct of primary research as a laboratory exercise, from which a common set of primary data is produced. At the final stage, each student independently undertakes the management and analysis of the data, interpretation of the findings, preparation of a technical report, and creation of a concise professional presentation for the stakeholder. The use of AI tools at this final stage is mandatory, but does not replace methodological justification, validation of the results, or the student's responsibility for the conclusions presented.

Instructors

Pigounakis Kostis

Course webpage

https://econservices.soc.uoc.gr/econ_classes/course/view.php?id=101

Prerequisites

Students are expected to be familiar with the basic concepts covered in the Mathematics, Statistics and Computer courses taught in the Department. Proficiency in office applications and basic data management and analysis tools is also required. Prior experience with AI tools is desirable, but does not constitute a separate academic prerequisite.

Learning outcomes and general competencies

Upon successful completion of the course, students will be able to:

- identify the stakeholder's requirements and translate them into clear research objectives and questions,
- define the research problem and the information required for decision-making,
- select an appropriate type of research and data collection methodology,
- design the data collection process, research instrument and sampling plan,
- organise and participate in primary data collection while monitoring data quality and consistency,
- prepare, manage and explore data, making appropriate use of AI tools where useful,

- analyse the results, critically assess AI-supported analyses and draw evidence-based conclusions,
- prepare a professional technical report that integrates the methodology, findings, conclusions and recommendations to the stakeholder, and
- present the key findings and recommendations clearly and concisely, with appropriate and well-documented use of AI tools.

The general competencies that students will acquire upon completion of the course are:

- Search, analysis and synthesis of data and information using appropriate tools and technologies.
- Adapting to new situations and evaluating new technological tools.
- Data-driven decision-making based on evidence.
- Teamwork and professional collaboration.
- Autonomous work, critical thinking and responsible use of AI tools.

Assessment

The assessment is based on two equally weighted components, each contributing equally to the final grade. The first concerns, on the one hand, understanding of the theoretical and methodological material, assessed through multiple-choice questions for each lecture, and, on the other hand, meaningful participation in the preparation and conduct of the primary research as a laboratory exercise. Assessment of the individual activities within the first component is dichotomous (pass/fail).

The second component evaluates the ability to produce results that are useful to the stakeholder. It includes the preparation of a technical report documenting the research process, data management and analysis, key findings, conclusions and recommendations, as well as the creation of a concise presentation of the most important results. Assessment is based on the quality, correctness, substantiation, clarity and usefulness of the deliverables relative to the standard expected of a professional in the field. The use of AI is assessed in terms of its appropriateness, transparency and the critical validation of its outputs, rather than as an end in itself.

Tutorial sessions

There are no tutorials for this course.

Supplementary material

Workload (in hours)

Lectures	Tutorials	Individual study	Total
47	0	103	150

Lectures

Objectives - Research Design and Types - Sources of Error and Reasons for Failure

1st Week: Introduction - Data and Decision-Making - Qualitative and Quantitative Research

2nd Week: Research Process - Problem Definition and Objectives - Research Design and Types - Sources of Error and Reasons for Failure

3rd Week: Data Collection Design - Variables, Measurement Scales and Research Instrument Design

4th Week: Data Collection Methods - Population and Sample - Sample Selection and Sampling

5th Week 5: Qualitative Research - Basic Methods, Applications and Evaluation of Findings

6th Week: Analysis Tools - Well-Justified Use of AI - Preparation of Technical Report - Presentation of Results

7th Week: LAB - Research Preparation - Pilot Testing and Familiarisation with Equipment and Data Collection Procedures

Weeks 8-9: LAB - Conducting Primary Research and Quality Control of Collected Data

Weeks 10-12: Management and Analysis of Results with AI Support - Validation and Interpretation of Findings - Preparation of Technical Report - Creation of Presentation

13th Week: Submission of Technical Report and Presentation of Results

MASS MEDIA AND ENTERTAINMENT ECONOMICS II - OIK4205

Course webpage

http://econservices.soc.uoc.gr/econ_classes/course/view.php?id=93

Primary textbook

*Supplementary
material*

*Workload
(in hours)*

Lectures

52

Tutorials

0

Individual study

88

Total

140

Lectures

MONETARY THEORY II - OIK4102

<i>Course objectives</i>	The objective of this course is to introduce students to the academic debate and research on monetary theory and policy. Students will investigate current research questions in relevant topics. They may conduct an empirical research (employing econometric techniques), a case study or a literature review.			
<i>Instructors</i>	Giannellis Nikolaos			
<i>Course webpage</i>	https://econservices.soc.uoc.gr/econ_classes/enrol/index.php?id=49			
<i>Prerequisites</i>	Sufficient knowledge of (1) Macroeconomics and (2) Monetary Theory I is required (courses OIK1002, OIK2001, OIK3109). In case of an empirical research, students should be familiar with econometric techniques.			
<i>Learning outcomes and general competencies</i>	On successful completion of the course, the students will be able to: • Find relevant sources in the literature • Collect data and do econometric analysis • Employ theoretical and empirical tools in economic analysis • Draw conclusions based on their empirical/theoretical analysis • Write academic papers • Present their results. • Give answers and propose solutions to monetary unions related research questions.			
<i>Assessment</i>	The assessment is based on students' participation and progress throughout the semester (30%), a PowerPoint presentation (50%), and a written paper (20%) submitted at the end of the semester.			
<i>Tutorial sessions</i>	There are no tutorilas for this course.			
<i>Workload (in hours)</i>	Lectures	Tutorials	Individual study	Total
	39	0	111	150
<i>Lectures</i>	Week 1: Main Topic, Objectives and Requirements • Brief presentation of the topics • The objectives of the course • Requirements and assessment • Application forms (students) 2nd Week: The working team of the course • The members of the working team are selected			

- Detailed presentation of the topics (instructor)
 - Topic pre-selection (students)
-

3rd Week: Topic selection

- Students make the final selection of the topic
 - Structure plan and basic contents of the paper (presented by the instructor)
 - Stages of research (presented by the instructor)
 - Instructions and directions on searching in the literature (presented by the instructor)
-

4th Week: Writing instructions

- How to write a paper
 - How to use the references
 - How to cite the sources
 - How to avoid plagiarism
-

5th Week: First Presentation

- The plan of the paper is presented in the class (students)
 - Progress check (by the instructor)
-

6th Week: Preparing the PowerPoint Presentation

- Instructions
 - Progress check
 - Questions and Answers
-

Weeks 7-9: Writing the paper

- Instructions
 - Progress check
 - Questions and Answers
-

Weeks 10-13: Presentations

- Students present their work
 - Discussion
 - Suggestions (by the instructor)
-

SPECIAL TOPICS IN FINANCE - OIK4206

Course objectives

The main objective of this course is to familiarize students with the skills of planning and writing a research paper, including the formulation of a research problem, the use of primary evidence, and the techniques of documentation. Students will investigate current research questions in special topics in finance. The seminar is conducted in thirteen weeks of meetings. Weekly attendance is mandatory.

Course webpage

http://econservices.soc.uoc.gr/econ_classes/course/view.php?id=111

Prerequisites

Sufficient knowledge of Financial Management I (OIK3207), Financial Analysis I (3206), Statistics II (OIK 1006) and Econometrics I (OIK2003).

Learning outcomes and general competencies

On successful completion of the course, the students will be able to:

- How financial markets work and the reason they exist.
 - The implications of market efficiency.
 - The security market line and the risk-return trade off.
 - The different types of exchange rate risk, and the ways in which firms manage exchange rate risk.
 - The shortcomings of and limitations to market efficiency from the behavioural finance view.
 - The exposures to risk in a company's business, and how a company could choose to hedge these risks.
 - Preparing research papers on assigned topics or smaller empirical or analytical research projects, while applying exact technical procedures and methodologies.
 - Critically commenting on the projects of other seminar participants and verifying their remarks.
 - Formulate a research problem or question.
 - Use different academic sources to find references.
 - Evaluate results based on different sources.
-

Assessment

The students' final grade for the seminar is based upon assessment of: 20% for the comments/suggestions made to their colleagues' assignments, 25% for the presentation in the classroom, and 55% for the written assignment.

Tutorial sessions

Not offered.

Primary textbook

Elton E.J., Gruber M.J., Brown S. and Goetzmann W. (2010). **Modern Portfolio Theory and Investment Analysis**, John Wiley and Sons, Inc., New York.

Saunders A. and Cornett M. (2015). **Financial Markets and Institutions (6th**

edition), McGraw-Hill Education, New York.

Τζαβαλής Η. και Πετραλιάς Α. (2009). **Επενδύσεις**, Εκδόσεις Εταιρεία Αξιοποίησης και Διαχείρισης της Περιουσίας του Οικονομικού Πανεπιστημίου Αθηνών ΑΕ, Αθήνα.

Supplementary material

Sharpe W.F., Alexander G.J., Bailey J. V. (1999). **Investments (6th edition)**, Prentice Hall, New York.

Rose P. and Hudgins, S.C. (2005). **Bank Management and Financial Services**, McGraw Hill, New York.

Παπαδάμου Σ. (2009). **Διαχείριση Χαρτοφυλακίου μια Σύγχρονη Προσέγγιση**, Εκδόσεις Gutenberg, Αθήνα.

Workload (in hours)

Lectures	Tutorials	Individual study	Total
39	0	101	140

Lectures

Week 1: Introduction

- Description and seminar goals.
-

Week 2: Topics are presented

Week 3: Choosing a topic

- Selecting a topic
 - Restricting the subject
 - Focus of the study
 - Hypothesis/ Objectives
 - Outline
 - A working bibliography
-

Week 4: Financial Markets

- Foreign exchange markets and exchange rates
 - Exchange rate risk
-

Week 5: Risk and Return

- Some lessons from recent capital market history
-

Week 6: Topics in corporate finance

- International corporate finance
 - Behavioural finance
-

Week 7: Credit risk portfolio models

Weeks 8-10: Progress and consultation on reports

Weeks 11-13: Presentations

INTRODUCTION TO PROGRAMMING USING R - OIK4502

<i>Course objectives</i>	The objective of this course is to introduce and give the basic knowledge to students to programming using R. Key actions, such as installation of R, data handling, vectors, lists, matrices, data frames, operators are taught. Further, plots and self-writing writing functions will be presented.			
<i>Instructors</i>	Tsagris Michail			
<i>Course webpage</i>	https://econservices.soc.uoc.gr/econ_classes/course/view.php?id=123			
<i>Prerequisites</i>	Sufficient knowledge of Statistics I (ECO1003) and II (ECO1006), Econometrics I (ECO2003) and II (2006), Computers for Economics I (ECO1501) and II (ECO2501).			
<i>Learning outcomes and general competencies</i>	On successful completion of the course, the students will be able to: • Install R. • Import and export data to and from R. • Distinguish terms as variable, object and their properties. • Be in a position to plot different types of data. • Be able to write functions and use the “while” and “for” loops.			
<i>Assessment</i>	The assessment is based on a final project submitted at the end of the semester. A presentation of the project follows at a later stage.			
<i>Tutorial sessions</i>	Not offered for this course.			
<i>Primary textbook</i>	Djoufras, I. and Karlis, D. (2016). Introduction to Programming and Staistical Analysis using R , Kallipos (Electronic Textbook), Athens (in Greek).			
<i>Supplementary material</i>	Fokianos, K. and Charalambous, Ch. (2010). Notes in R, https://cran.r-project.org/doc/contrib/mainfokianoscharalambous.pdf, Athens (in Greek). Fouskakis, D. (2013). Data Analysis using R, Tsotras Publishing, Athens (in Greek).			
<i>Workload (in hours)</i>	Lectures	Tutorials	Individual study	Total
	52	0	88	140

(Chapter 1)

- Description and seminar goals.
 - Installation of R.
 - Basic operations.
 - Libraries.
-

Week 1: Introduction

(Chapter 1)

- Description and seminar goals.
 - Installation of R.
 - Basic operations.
 - Libraries.
-

Week 2: Vectors and operators

(Chapter 2)

- Vectors and operators.
 - Simple calculations.
 - Commands, numbers, and characters.
-

Week 3: Data import/export, matrices, and data.frames

- Data import and export.
 - Matrices and data.frames.
 - Lists.
-

Week 4: Data visualization

(Chapter 5)

- Plots for continuous data.
 - Plots for categorical data.
 - Multiple plots in a window.
 - Export and store plots.
-

Week 5: For and while loops

- The for loop.
 - The while loop.
-

Week 6: Writing functions and project assignment

(Chapter 7)

- Writing functions.
 - Discussion of the projects.
-

Week 7: Basic commands for data analysis I

(Chapter 8)

- Comparison of two population means.
 - Comparison of 3 or more population means.
 - Pearson and Spearman correlations.
-

Week 8: Basic commands for data analysis II

(Chapter 8)

- Linear regression models.
-

Week 9: Project report meeting

Week 10: Project report meeting

Week 11: Project report meeting

Week 12: Project report meeting

Week 13: Presentation of the projects

ECONOMIC MODELS OF INNOVATION THEORY - OIK4207

Course objectives --

Instructors Panagopoulos Andreas

Primary textbook

Workload (in hours)	Lectures	Tutorials	Individual study	Total
	52	0	90	142

Lectures

EUROPEAN ECONOMIC HISTORY II - OIK4304

Course objectives

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Course webpage

<http://www.soc.uoc.gr/moodle/course/index.php?categoryid=7>

*Workload
(in hours)*

Lectures

24

Tutorials

0

Individual study

126

Total

150

Lectures

DEVELOPMENT OF TOURISM DESTINATIONS - OIK4208

Course objectives

The concept of development refers to activities or processes that bring about positive change in terms of growth, improvement, and progress in three main pillars: society, the economy and the environment. The ultimate goal of development is prosperity, as determined by the rising standard and quality of human life. In the contemporary socio-economic environment, development is often pursued through extensive collaboration between various organizations, companies, and other stakeholders in order to achieve progress towards common goals of sustainable development.

Tourism is one of the main forms of social and economic activity both in Greece and worldwide. The tourism destinations, in which the tourist activity develops, are intensely complex environments and therefore excellent frameworks for the application of theories and the examination of development practices. The development of tourism destinations involves a variety of stakeholders either directly (e.g., airlines, airports, hotels, attractions, etc.) or indirectly (e.g., banks, insurance companies, food establishments, hospitals, public bodies, etc.). The purpose of this seminar course is for students to study and comprehend the field of development of tourism destinations. The structure of the course consists of four parts. Initially, there will be an introduction to the course and its assessment (i.e., the consultancy project). Next, the course will focus on the study of the broader concept of development, the main approaches and theories that examine it, the nature and dimensions of sustainable development, the relevant regulatory environment, the importance of collaboration between various stakeholders, and the evaluation of sustainable development practices. Then, the above concepts will be examined and applied in the context of tourism destinations. Examples and case studies from Greece and other countries around the world will be examined. After introducing the characteristics and structures of the tourism industry, emphasis will be placed on the relationships of the supply chain and other stakeholders of a tourism destination that co-create tourism products and services (i.e., tourism experiences). The role and implementation of policy, strategic planning, management, and governance of a tourism destination, as well as the evaluation of development practices and programs of sustainable tourism development will be studied. Finally, the teaching of the seminar course will focus on supporting the group consultancy project work that the students will perform. This will include discussing and monitoring the progress of the students' work, as well as providing feedback on student ideas and draft documents.

Instructors

Spyriadis Thanasis

Primary textbook

Workload (in hours)

Lectures
39

Tutorials
13

Individual study
110

Total
162

Lectures

BUSINESS CONSULTANCY PROJECT - OIK4209

Course objectives

The aim of this project-based module is to introduce students to business consultancy reports in the tourism field. In collaboration with institutions/companies/individuals in the tourism market in Greece, the aim and objectives of the project are introduced, which need to be addressed using primary and secondary data. Following a review of the literature, a research tool is designed, which is subsequently used for data collection. Applying relevant data analysis techniques, the students provide recommendations/solutions that are verbally presented. Weekly attendance is mandatory.

Prerequisites

None. Useful to have previously attended Marketing, Economics of Tourism, Marketing with a focus on Tourism.

Learning outcomes and general competencies

Upon the successful completion of this module, the student will be able to:

- Apply basic principles and practices of research methods.
- Acknowledge the key steps in research design.
- Critically review the academic literature.
- Select appropriate tools and design projects.
- Present results using the relevant tools.

Additional skills that the students will acquire after the successful completion of the module include:

- Research, analysis and synthesis of data and information retrieved.
 - Work in a multi-disciplinary environment.
 - Decision-making.
 - Group-work.
 - Fieldwork
-

Assessment

One group report and oral presentation (70% of total grade) and an individual assignment (30% of total grade).

Tutorial sessions

Not offered.

Primary textbook

Stylidis, D. (2023). **Instructor's notes**, Rethymno.

Workload (in hours)

Lectures	Tutorials	Individual study	Total
45	0	117	162

Lectures

1st Week: Introduction

- Introduction to the module.
 - Information about the project.
 - Expression of interest.
-

2nd Week: Marketing I

- Strategic planning and analysis of environment.
 - Project management.
-

3rd Week: Marketing II

- Consumer behaviour.
 - Market segmentation-targeting-positioning.
 - Promotion and public relations.
-

4th – 6th Week: Market Research in Tourism

- Aim and objectives.
 - Sampling.
 - Research tools.
 - Survey design.
-

7th- 8th Week: Data collection

- Data collection.
-

9th Week: Data Analysis

- Data analysis using the relevant tools.
-

10th – 11th Week: Project Progress

- Progress and consultation on reports.
-

12th – 13th Week: Presentations

- Mock Presentation.
 - Final Presentation.
 - Discussion.
-

COMPARATIVE ECONOMIC SYSTEMS II - OIK4305

Instructors

Milonakis Dimitris

*Workload
(in hours)*

Lectures

39

Tutorials

0

Individual study

111

Total

150

EXPERIMENTAL ECONOMICS - OIK4109

Course objectives

This course introduces students to the foundations of experimental economics and its role in testing the behavioural assumptions underlying neoclassical economic theory. In this course, we adopt an experimental approach to examine core theoretical predictions under controlled, causal conditions.

The course has two parts. In the first part (Weeks 1–6), lectures develop the methodology of the discipline and the main theoretical models that experiments have been used to test, while parallel laboratory sessions build the practical skills — experimental software and statistical analysis — needed for the second part. In the second part (Weeks 7–13), students work in groups of two to three on a project of their own design, meeting regularly with the instructor for structured supervision and presenting their work to the class at the end of the semester.

Instructors

Kopsacheilis Orestis

Course webpage

https://econservices.soc.uoc.gr/econ_classes/course/view.php?id=577

Prerequisites

Knowledge of the basic microeconomic models taught in Microeconomic Theory I (OIK1005) and II (OIK2002), and in particular of models of consumer behaviour and of the elements of game theory, considerably facilitates following the course, as does familiarity with introductory statistics. The necessary theoretical tools are revisited in the relevant lectures, and the statistical methods and experimental software required for the group project are taught from the beginning in the laboratory sessions, so that the course is self-contained.

Students are encouraged to take Behavioural Economics (OIK3118), which is highly complementary to this course: it presents the models and the empirical findings, while this course concentrates on how such evidence is produced and evaluated. It is not a requirement, and the two courses may be taken in either order.

Learning outcomes and general competencies

Upon successful completion of this course, students will be able to:

- Understand and apply the core methodology of experimental economics, including the design of controlled laboratory experiments.
- Formulate research questions and design appropriate experiments (including treatment structures and subject instructions).
- Collect, analyse and interpret experimental data using standard statistical and econometric techniques.
- Discuss the main findings of experimental research in Industrial Organisation, Labour Economics, Behavioral Economics, and Field Experiments.
- Explain the differences between laboratory and field experiments and assess the strengths and limitations of each approach.

- Present and defend experimental results orally and in written form, adhering to academic standards. Critically evaluate published experimental studies and connect them to broader economic theory.

The general competencies that students will acquire upon completion of the course are:

- Search, analysis and synthesis of data and information, with the use of the necessary technology
- Decision-making
- Working independently and in teams (group experiment design and paper writing)
- Working in an interdisciplinary environment (mainly economics and psychology)
- Production of new research ideas
- Team work
- Criticism and self-criticism
- Production of free, creative and inductive thinking
- Project planning and management

Assessment

The final grade is determined entirely by a group project (groups formed in Week 7), which consists of two interconnected components:

1. Project work (Weeks 7–11). Each group develops a project on a topic drawn from the lecture phase, taking one of the forms described in the syllabus and agreed with the instructor in Week 7. Where a project involves running an experiment or survey, it must be implemented using the tools introduced during the course (Qualtrics, Classex, oTree, z-Tree or equivalent platforms demonstrated in class). Progress is monitored through four structured Progress Meetings (Weeks 8–11), allowing the instructor to provide iterative feedback and to ensure academic integrity.

2. Presentation slides and oral presentation (Weeks 12–13) – 100% of the final grade. Each group submits their final slide deck and delivers an approximately 20-minute oral presentation covering:

- the research question and its theoretical motivation;
- the experimental design and treatment structure;
- the hypotheses derived from theory;
- where applicable, the data collection procedure and sample description;
- where applicable, the results and their statistical analysis;
- discussion and conclusions.

Slides are assessed on: (a) the scientific rigour of the experimental design, (b) the correctness and depth of the analysis or argument, (c) the quality and clarity of the visual presentation, and (d) the coherence between the theoretical framework, the hypotheses tested and the conclusions drawn. The Q&A following each presentation is also taken into account. In principle all group members receive the same grade; the instructor may differentiate in cases of demonstrably unequal contribution, as evidenced by the progress meeting records.

Tutorial sessions

During the semester, there will be laboratory/tutorial sessions totaling 18 hours.

Primary textbook

Holt, C. A. (2019). **Markets, Games, and Strategic Behavior: An Introduction to Experimental Economics, 2nd edition**, Princeton University Press, Princeton and Oxford.

Workload (in hours)

Lectures	Tutorials	Individual study	Total
21	18	111	150

Lectures

1st Week: Methodology and Foundations of Experimental Economics

- History and development of the field.
 - Induced value theory and the requirements for experimental control.
 - Failures of control: homegrown values, context, deception, experimenter demand effects.
 - Treatment structure and experimental design; between-subjects versus within-subjects.
 - Laboratory versus field experiments.
 - What counts as an independent observation.
-

2nd Week: Decisions under Uncertainty

- The expected utility baseline: risk aversion and utility curvature.
 - Eliciting risk preferences; incentives, payoff scale and hypothetical bias.
 - Evidence against expected utility: the Allais paradox, the endowment effect, status quo bias.
 - Prospect Theory: reference dependence, loss aversion, probability weighting.
 - The fourfold pattern of risk attitudes.
-

3rd Week: Nash Equilibrium and Coordination Games

- Games, payoff matrices and dominant strategies; the prisoner's dilemma.
 - Nash equilibrium and best responses.
 - Coordination games and multiple equilibria; payoff dominance versus risk dominance.
 - Focal points and salience as equilibrium selection devices.
 - Weak-link (minimum-effort) games and group size effects.
-

4th Week: Bargaining and Fairness

- The ultimatum game: theoretical prediction and experimental findings.

- The dictator game; separating other-regarding motives from strategic ones.
 - Procedural variation as treatment: anonymity, instruction wording, earned versus gifted endowments.
 - Trust, intentions and reciprocity.
 - What bargaining experiments show about the limits of self-interest.
-

5th Week: Social Dilemmas, Cooperation and Social Preferences

- Public goods and common-pool resources; the free-rider problem.
 - The voluntary contributions mechanism; contribution levels and their decay over repeated rounds.
 - Conditional cooperation and the heterogeneity of behavioural types.
 - Costly punishment, norm enforcement and the second-order dilemma.
 - Models of social preferences: inequity aversion (Fehr–Schmidt), envy and guilt.
-

6th Week: Limited Strategic Thinking

- Why one-shot games require a model of reasoning rather than of equilibrium.
 - The p-beauty contest and level-k reasoning.
 - Cognitive hierarchy models.
 - The effect of repetition and learning.
 - Applications and limitations.
-

Laboratory and tutorial sessions (Weeks 1–6, parallel track)

- Experimental software: Qualtrics, Classex, oTree, z-Tree.
 - Writing and piloting subject instructions.
 - Basic principles of hypothesis testing.
 - Non-parametric tests appropriate to experimental data.
 - Data handling, analysis and presentation of results in R.
-

7th Week: Assignment Briefing Session

- Presentation of the group assignment structure. Each group selects a topic from those covered in Weeks 1–6 and agrees the form its project will take.
- Projects need not all take the same form. Examples include: designing and running an experiment or survey and analysing the data collected; replicating or re-analysing a published experimental study; developing a complete experimental protocol — design, treatments, instructions, hypotheses and

planned analysis — without running it; or taking a recent paper, policy question or observed phenomenon and proposing an experimental design capable of investigating it.

- Guidelines for design, analysis and preparation of presentation slides are discussed. Groups formalise their composition and topic choice.

8th Week: Progress Meeting I

- Groups present their research question and proposed approach. Instructor feedback on the motivation for the question, the appropriateness of the design and the treatment structure.

9th Week: Progress Meeting II

- Groups report on progress. For projects involving data collection, discussion of the fieldwork and preliminary descriptive results; for design- and literature-based projects, discussion of the developing protocol or argument.

10th Week: Progress Meeting III

- Groups present preliminary results or a complete draft design. Feedback on the analytical approach, the figures and the connection to the theoretical framework.

11th Week: Progress Meeting IV

- Groups present near-final presentation slides. Detailed feedback on structure, clarity of argument, quality of visual presentation, and the link between theory and conclusions.

Weeks 12-13: Project Presentations

- Groups present their project to the full class. Each presentation (~20 minutes) covers: research question, design and treatment structure, hypotheses, results or planned analysis, and conclusions. Q&A with instructor and peers follows each presentation.