PUBLIC ORGANIZATIONS MANAGEMENT

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	PUBLIC ORGANIZATIONS MANAGEMENT		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
	3 HOURS	7

TYPE OF MODULE	COMPULSORY	
PROREQUISITE MODULES:	NO	
LANGUAGE OF TEACHING AND TESTING:	GREEK	
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO	
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_113/	

2. LEARNING OUTCOMES
Learning Outcomes
Upon completion of the course, participants are expected to:

a. Be able to set goals, plan and monitor activities on behalf of public organization
b. understand the contemporary international reality in the public sector
c. can identify good practices in public management
d. understand and be able to manage the challenges within public organizations
e. realize the value of the contribution of employees to the achievement of the objectives of public organizations

General Competencies

Upon successful completion of the module, students will develop and cultivate basic professional and social skills, namely:

f. Search, analysis and synthesis of data and information, using necessary technologies
g. Decision making
h. Autonomous work
i. Exercise criticism and self-criticism
j. Promotion of free, creative, and inductive thinking

3.MODULE CONTENT

k. Particularities of the public sector
l. Programming
m. Basic management theories
n. The environment of the public sector
o. Organizing in public organizations
p. Communication in public organizations
q. Leading in public organizations
r. Controlling in public organizations
s. Management of changes and innovations in public organizations
t. Special issues in the administration of public organizations

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION	Learning process support through the e-class online platform, email, MS TEAMS

TECHNOLOGIES	
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:

Type~~Είδος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39
	Study at home	120
	Preparation for the final exam	40
	Final Examination	2
	Final Examination	2
	Total	201

Formatted Table

MODULE ASSESSMENT	Written exam

5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	Textbooks in Greek Πετρίδου, Ε. (2011). Διοίκηση-Μάνατζμεντ. Εκδόσεις Σοφία. Φαναριώτης, Π. (1999). Διοίκηση Δημοσίων Υπηρεσιών και Οργανισμών – Εισαγωγή στο Σύγχρονο Δημόσιο Μάνατζμεντ. Εκδόσεις Σταμούλη. Ραμματά, Μ. (2011). Σύγχρονη Ελληνική Δημόσια Διοίκηση. Εκδόσεις Κριτική. Μακρυδημήτρης, Α. (2009). Προσεγγίσεις στη Θεωρία των Οργανώσεων. Εκδόσεις Καστανιώτη.

Μακρυδημήτρης, Α. & Πραβίτα, Μ. (2012). Δημόσια Διοίκηση: Στοιχεία Διοικητικής Οργάνωσης. Εκδόσεις Σάκκουλα.

Ρωσσίδης, Ι. (2013). Εφαρμογές του Επιχειρησιακού Μάνατζμεντ στην Ελληνική Δημόσια Διοίκηση. Εκδόσεις Σταμούλη.

PUBLIC ECONOMICS

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE	**SEMESTER OF STUDY**	A
MODULE TITLE	PUBLIC ECONOMICS	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO

MODULE'S URL	https://applied.econ.uth.gr/courses/%ce%b4%ce%b7%ce%bc%cf%8c%cf%83%ce%b9%ce%b1-%ce%bf%ce%b9%ce%ba%ce%bf%ce%bd%ce%bf%ce%bc%ce%b9%ce%ba%ce%ae/

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected to:

- understand in depth the government's interventionism in the economy, and also the aims and objectives this function serves
- analyze the economic effects of fiscal tools, namely spending & taxation, on the economy and economic activity
- comprehend the role and effect of the context set by the EU and the eurozone environment with emphasis on the exercise of fiscal policy
- realize the constraints of fiscal policy and the relationship with the electoral and political cycle

General Competencies

The course aims to help students deepen and specialize their knowledge of public economics and the functioning of the government as a producer of public and social goods such as health, security, education, justice, national defense as well as issues relating to the exercise of fiscal policy.

3.MODULE CONTENT

The course focuses on the analysis of government intervention in the economy and the production of public and social goods, the exercise of fiscal policy, the critical examination of the aims and objectives of government intervention. Issues such as the fiscal budget, electoral cycle and fiscal policy, public choice theory and the conditions for government intervention in the economy to be socially beneficial, are examined.

The main issues of the course include subjects such as: Theories on the role of the government, the nature and characteristics of public goods, fiscal budgeting: public expenditures and revenues with an emphasis on Greece, fiscal deficits and public debt with an emphasis on the case of Greece

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	The learning process is supported through the course's e-class online platform, the use of the official email of the department to communicate with students, and MSTEAMS

ORGANISATION OF TEACHING	The lectures of the course takes place in the amphitheaters of the Department of Economics. Informational and learning material is distributed through the e-class platform.

More specifically, the workload of the module is analyzed as follows:

Type	Description	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50
	Preperation for the final exam	39
	Final Examination	2
	Total	210

MODULE ASSESSMENT	Assignment (40%) and final exam (60%)

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	○ Rosen, H., T. Gayer, Β. Ράπανος, & Γ. Καπλάνογλου (2009) Δημόσια Οικονομική, Τόμος Α&Β Εκδόσεις Κριτική ○ Stiglitz, J. (2009), Οικονομική του Δημόσιου Τομέα, Εκδόσεις Κριτική. ○ Δαλαμάγκας, Β. (2003) Εισαγωγή στη Δημόσια Οικονομική, Εκδόσεις Κριτική

o Γεωργακόπουλος, Θ. (1997) *Εισαγωγή στη Δημόσια Οικονομική*, Εκδόσεις Μπένου
o Κόλλιας, Χ, & Ζουμπουλάκης, Μ. (2021), *Εθνική άμυνα και εθνικά χρέη*. Gutenberg.

SPATIAL DEVELOPMENT AND STRATEGIC PLANNING

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	SPATIAL DEVELOPMENT AND STRATEGIC PLANNING		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**
Lectures – assignments	3 HOURS	7

TYPE OF MODULE	Compulsory course
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_188/

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course students are expected to:

- understand the concept of territory at different spatial scales, and the scope of regional science
- understand the basic principles of spatial development and competitiveness theories
- understand the broader economic, social, political and technological changes which are redefining the dynamics of spatial development
- understand the concept of strategic planning and its role in development
- understand the levels of strategic planning
- analyse development dynamics at the local level
- follow the development of strategic plans and spatial development programmes
- understand the dimensions and implement policies and actions based on local specificity, uniqueness and dynamics

General Competencies

It is useful students to have general knowledge and analytical skills concerning the spatial organisation of the economy at different spatial scales (urban, regional, national) and basic knowledge of economics

3.MODULE CONTENT

1. SPATIAL DEVELOPMENT, REGIONAL SCIENCE AND OTHER METHODOLOGICAL ISSUES

2. STRUCTURAL CHANGES AND THE ORGANISATION OF SPACE

3. THEORIES OF REGIONAL DEVELOPMENT AND SPATIAL DISPARITIES

4. LOCAL ECONOMIC DEVELOPMENT

5. DIMENSIONS AND MEANS OF REGIONAL POLICY IMPLEMENTATION

6.   THE COMMONS: AN ALTERNATIVE PARADIGM FOR BOTTOM-UP DEVELOPMENT

7.   STRATEGIC AND TACTICAL PLANNING

8.   POLICIES AND PLANNING TOOLS FOR DEVELOPMENT

9.   BUSINESS PLANS: ANALYSIS - ROLES - PARTICIPATORY PROCESS

10. SPECIFIC DEVELOPMENT ISSUES WITH A FOCUS ON TOURISM, CULTURE AND THE ENVIRONMENT

11.   DEVELOPMENT PROGRAMMES, STRATEGIC PLANNING AND NEW FORMS OF DEVELOPMENT

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	In-person/ Online/ Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support for the learning process through the e-class platform and MSTeams. Communication via email.
ORGANISATION OF TEACHING	The delivery of the course takes place in the classrooms of the Department of Economics. Informative and educational material is distributed through the course page in the e-class More specifically, the workload of the module is analyzed as follows:

TypeΕίδ ος	DescriptionΠεριγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	60
	Completion of assignments	60

Formatted Table

	Preperation for the final exam	21
	Final Examination	2
	Total	182
MODULE ASSESSMENT	Written examinations or individual or group assignments	

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	• Armstrong H.W. and Taylor J. (2000) *Regional economics and policy*, Blackwell • Pike A., Rodriguez-Pose A. and Tomaney J. (2006) *Local and regional development*, Routledge • Πετράκος Γ. και Ψυχάρης Γ. (2016) *Περιφερειακή Ανάπτυξη στην Ελλάδα*, 2η εκδ. Κριτική • Πολύζος Σ. (2011) *Περιφερειακή Ανάπτυξη*, Κριτική

APPLIED ECONOMIC ANALYSIS

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	**APPLIED ECONOMIC ANALYSIS**		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
LECTURES	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_187/

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected to:
- o understand sufficiently the basic economic concepts concerning the markets, the sectors of government's policy in the economy, and also fundamentals of the money markets and international transactions
- o distinguish and apprehend the interdependence between internal and external factors of markets

General Competencies

The course aims to introduce in a critical way the basics of contemporary Economic Analysis. Emphasis is given on the fundamental problems of the operation of the markets on the micro and the macro level. The course demands little or no previous knowledge of economics.
The course focuses on the conceptual aspects of economic reasoning and not on the theoretical or mathematical demonstrations of economic theorems, in a way to make students able to understand the major aspects of the functioning of markets, their failures and remedies.

255

3.MODULE CONTENT

- J) MICROECONOMIC THEORY: Demand and supply theory, Cost and production analysis, Forms of competition, Market Failures, Theory and Evolution of Firms, Transaction Costs Theory.
- K) FUNDAMENTAL MACROECONOMIC INDICATORS- BALANCE OF TRADE AND CURRENT TRADE BALANCE
- L) MONETARY THEORY AND POLICY

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	The learning process is supported through the course's e-class online platform, the use of the official email of the department to communicate with students, and MSTEAMS
ORGANISATION OF TEACHING	The lectures of the course takes place in the amphitheaters of the Department of Economics. Informational and learning material is distributed through the e-class platform.

More specifically, the workload of the module is analyzed as follows:

Type	Description	WORKLOAD (HOURS)
	Lectures	39
	Study at home	60
	Completion of assignments	40+2
	Preperation for the final exam	36
	Final Examination	3
	Total	180

| MODULE ASSESSMENT | Two compulsory tests (40%), Participation (10%), final exam (50%) |

5. RECOMMENDED BIBLIOGRAGHY

| *Suggested Bibliography:* | o Βαρουφάκης, Γ. (2007), Πολιτική Οικονομία, Αθήνα, Gutenberg.
o Bowles S, R. Edwards, & F. Roosevelt, (2005), Κατανοώντας τον Καπιταλισμό, ελλ. μτφ Αθήνα, Gutenberg 2014, Επιμέλεια μτφ Μ. Ζουμπουλάκης.
o Krugman, P. & R. Robin (2014), Μακροοικονομική σε διδακτικές ενότητες, ελλ. μτφ Αθήνα, Gutenberg 2018.
o Nicholson, W., (2005), Μικροοικονομική Θεωρία, ελλ. μτφ. Εκδ. Κριτική, 2008.
o Mankiw, G., Taylor, M.P and Ashwin, A. (2012) Οικονομική των επιχειρήσεων, ελλ. μτφ. Εκδ. Κριτική, 2018 |

RESEARCH METHODOLOGY SEMINAR I

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		SEMESTER OF STUDY	A
MODULE TITLE	Research Methodology seminar I		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	ECTS
			2
TYPE OF MODULE	COMPULSORY		
PROREQUISITE MODULES:	NO		
LANGUAGE OF TEACHING AND TESTING:	GREEK		

257

THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Students will be able to do the following:

- To plan a proper design of a research as well as the identification of the central question and the relative assumptions is a necessary precondition for the scientific analysis of any social and economic phenomenon.
- To implement several research methods that based on (i) specific principles and concepts, (ii) selection of appropriate research tools concerning the preparation and implementation of the research (collection and organization of information in databases, sample, sampling procedures, questionnaires, and interviews) and finally (iii) tools and methods for evaluation and analysis of the collected data / information.
- To understand the practice of empirical scientific research which, under an appropriate methodological design, ensures objective measurements and estimations of the examined phenomena and allows the systematic verification of the research's hypotheses.

General Competencies

- Research and analysis of complicate data with the use of the appropriate methods and tools
- Capacity to develop autonomous work
- Capacity to develop team work
- Working in a multidisciplinary environment
- Production of new innovative research ideas

3.MODULE CONTENT

The primary objective of this course is to provide students with adequate knowledge on the logical path of scientific research and the choice of appropriate methods – tools for the analysis of the potential development issues. This specialized knowledge gives to students the opportunity both to design and implement a research and to acquire critical thinking necessary to solve complex issue and problems.

Consequently, the course includes the following:
1. Concepts, principles, importance and purposes of scientific research
2. Identification and formulation of the central problem (research question) and of the assumptions
3. Investigation of the field, literature research
4. Structuring the analysis concerning, investigation of data resources: central assumptions, main themes for investigation, identification of quantitative and / or qualitative variables in the model, selection of appropriate research method
5. Specificities of primary and secondary research, search and selection of data sources

6. Implementation of tools for primary research: sample, sample size, sampling methods, alternative forms of questionnaires, coding questions..

7. Data entry technics and reliability tests

8. Statistical analysis of data: (a) simple exploratory statistical analysis, (b) advanced exploratory analysis: Exploratory Factor Analysis (EFA) and Principal Component Analysis (PCA), (c) Confirmatory Factor Analysis (CFA), (d) regression and projections

9. Verification of the main assumptions of the model, discussion on the findings as regards existing theories and approaches, drawing conclusions.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed (face to face and hybrid)
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	➢ Use of e-platform, e-class ➢ Use of Ms-Teams programme
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows: <table><tr><td>Type</td><td>Description</td><td>WORKLOAD (HOURS)</td></tr><tr><td></td><td>Lectures</td><td>20</td></tr><tr><td></td><td>Study at home</td><td>15</td></tr><tr><td></td><td>Completion of assignments</td><td>15</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td>Total</td><td>50</td></tr></table>
MODULE ASSESSMENT	Final grade is derives from: Writing a scientific assignment (100%) 4.000-6.000 words based on Scientifics articles

5. RECOMMENDED BIBLIOGRAGHY

| *Suggested Bibliography:* | - Brotherton, B. (2008) Researching Hospitality and Tourism: A Student Guide, London και Thousand Oaks: Sage.
 - Δαφέρμος, Β. (2013), Παραγοντική ανάλυση: Διερευνητική με SPSS και επιβεβαιωτική με το LISREL και το AMOS, Θεσσαλονίκη: Ζήτη.
 - Ζαφειροπούλος, Κ. (2005), Πως γίνεται μια επιστημονική εργασία; Αθήνα: Κριτική.
 - Finn, M., Elliott-White, M., Walton. M. (2000) Research Methods for Leisure and Tourism, Harlow: Pearson Education.
 - Grawitz, M. (2006), Μέθοδοι των κοινωνικών επιστημών, Τόμος Α' και Β', Αθήνα: Οδυσσέας |

259

2nd Semester

MSc Applied Economics with specialization in Public and Local Government Organization Management		
MODULES	**TYPE**	**ECTS**
Total Quality Management	COMPULSORY	7
Administrative Law	COMPULSORY	7
European Institutions	COMPULSORY	7
Selective Modules *	SELECTIVE	7
Research Methods Seminar II	COMPULSORY	2

*Selective Modules- One of the following		
MODULES	**TYPE**	**ECTS**
Labour Relations	SELECTIVE	7
Measurement of Productivity and Efficiency	SELECTIVE	7
Real Estate Market	SELECTIVE	7

TOTAL QUALITY MANAGEMENT

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE		**SEMESTER OF STUDY** B
MODULE TITLE	TOTAL QUALITY MANAGEMENT	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures - Exercises - Actions	3 HOURS	7

TYPE OF MODULE	COMPULSORY	
PROREQUISITE MODULES:	NO	
LANGUAGE OF TEACHING AND TESTING:	GREEK	
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO	
MODULE'S URL	eclass.uth.gr	

2. LEARNING OUTCOMES
Learning Outcomes
The primary aim of this course is to provide the student with the tools to answer the

following questions:

• How can I determine and recognize the quality and quality processes in an economic unit?

• How can I design a process using quality protocols?

• How can I assess and measure the quality in the processes of an economic unit?

• How should I manage to implement quality protocols in an economic unit?

General Competencies

The student will have the ability to comprehend issues related to processes and quality control. They will be capable of understanding and implementing quality processes, process design, and control. They will possess the skills to measure the design of quality processes and quality management systems through statistical control. Additionally, they will have the capability to apply quality control tools and techniques, as well as organizational, design, and management techniques for the implementation of quality protocols.

3.MODULE CONTENT

• Introduction to the basic concepts of total quality.

• Overview of the fundamental theories of Total Quality Management.

• Analysis of the specifications of major quality standards/awards.

• Process analysis, process design, and development of high-quality systems.

• Statistical process control.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	in-person and remote activities or learning (hybrid)

USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	"Supporting the learning process through the e-class electronic platform. Using email and Microsoft Teams." This statement indicates the use of electronic platforms and communication tools like email and Microsoft Teams to facilitate and enhance the learning process.

ORGANISATION OF TEACHING

More specifically, the workload of the module is analyzed as follows:

TypeΕίδ ος Description Περιγραφή	WORKLOAD (HOURS)
Lectures	39
Study at home	80
Preperation for the final exam	90
Final Examination	1
Total	210

Formatted Table

MODULE ASSESSMENT	100% Individual Presentation of a Scientific Article.

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:

- Juran, J. M., & De Feo, J. A. (2010). Juran's quality handbook: the complete guide to performance excellence. McGraw-Hill Education.
- Oakland, J. S. (2003). Total quality management and operational excellence: text with cases. Butterworth-Heinemann.
- Tague, N. (2004). The quality toolbox. Quality Press.

ADMINISTRATIVE LAW

1.GENERAL			

SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	

MODULE CODE		SEMESTER OF STUDY	A
MODULE TITLE	Administrative Law		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures – exercises - practice	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

This course is aiming to:

Provide theoretical knowledge in order to comprehend the meaning and basic concepts of administrative law

Explain in practice and through examples the principle of legality, the principle of good administration, the principle of proportionality, the principle of meritocracy and other basic principles of administrative law.

General Competencies

Upon completion of this course, participants are expected to :
  - be able to know the legal rules governing the activities of the Public Administration
  - be familiar with the legal rules governing the organisation of the Public Administration
  - understand the pivotal role of the principle of legality, the principle of good administration, principle of transparency, the principle of proportionality, the principle of meritocracy and the principle of efficiency in public administration
  - grasp the importance of the rule of law in the control of the public administration
  - be able to apply administrative law competently in practice

3.MODULE CONTENT

1. Introduction to Law and to Public Law
 Public Law and Private Law. Constitutional Law. The Greek Constitution. State. Constitutional Institutions and Fundamental Rights. Legislative, executive and judicial power. The fundamental features of the Greek Constitution.

2.The sources of law. The sources of administrative law. Methodology of administrative law.

3. General Principles of Administrative Law. The Principles of administrative action and the principles of administrative organization. The principle of legality. Competence. Code of administrative procedure. The hierarchical structure of the executive branch.

4. Administrative Law: Substantive Administrative Law and Organizational Administrative Law. Administrative law and private law.

5. Administrative action. Categorization of administrative action. Administrative documents. Administrative acts. Categories of administrative acts. The article 43 par. 2 and 4 of the Greek Constitution.

6. Administration. Public Administration. Public Sector. Distinction between state functions. Executive function.

7. Central administration. Government. The Prime Minister. Government and Administration. Systems of administrative organization.

8. Decentralized administration. Local administration. Legal Persons. Categorization of public legal persons.

9. Independent Authorities. The Greek Ombudsman.

10. Hierarchical control and administrative supervision of administrative action. Judicial review. Parliamentary scrutiny.

11. The principle of transparency. The principle of good governance. The principle of proportionality. The principle of effectiveness. The principle of sound financial management. The principle of innovation. The principle of objectivity. The principle of impartiality. E-government.

12. Personnel Recruitment Law. The Law of the Supreme Council for Civil Personnel Selection (ASEP). The principle of meritocracy. Leadership in public sector.

13. Administrative science and administrative law. Critical review of Administrative Law

4. TEACHING AND LEARNING METHODS EVALUATION	
TEACHING METHOD	**Lectures/case studies**
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support of the learning process through the e-class platform. Use of email, MSTEAMS
ORGANISATION OF TEACHING	The course takes place in the classrooms of the Department of Economics. Notes and materials are distributed through the course page in e-class and through reference to the electronic scientific open access journal DIMOSIO LAW (www.publiclawjournal.com) and other electronic open access scientific legal journals. ………………………………………… More specifically, the workload of the module is analyzed as follows:

Type	Description	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50
	Preperation for the final exam	39
	Final Examination	2
	Total	210

MODULE ASSESSMENT	Written exam (80%) and individual assignment (20%).

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	Tzemos V. G. (2013), *Organizational Administrative Law*, Athens: Nomiki Bibliothiki Editions [in Greek]. Tzemos V. G., ed. (2023), The Greek Supreme Council for Civil Personnel Selection (ASEP) and Human Resources in the Public Sector Law. A Commentary", Athens: Nomiki Bibliothiki Editions [in Greek]. Tzemos V. G., ed. (2020), *Personnel Recruitment Law. The Law of the Supreme Council for Civil Personnel Selection (ASEP)*, Athens: Nomiki Bibliothiki Editions [in Greek]. Tzemos V. G. (2012), *The Greek Ombudsman*, Athens: Nomiki Bibliothiki Editions [in Greek]. Tzemos V. G., "The Legal Maladministration", *Public Law* 2017, p. 95f. (www.publiclawjournal.com) [in Greek]. Tzemos V. G. (2020), "The 'Mature' Proportionality" in Tzemos V. G., ed., *Ebook of the 6th Annual Congress of the Greek Public Law Association in Patras*, p. 10f. (www.dimosiodikaio.gr) [in Greek]. -

EUROPEAN INSTITUTIONS

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE	**SEMESTER OF STUDY**	**A**
MODULE TITLE	**EUROPEAN INSTITUTIONS**	
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**
	3 HOURS	7
TYPE OF MODULE	COMPULSORY	
PROREQUISITE MODULES:	NO	
LANGUAGE OF TEACHING AND TESTING:	GREEK	
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO	
MODULE'S URL	eclass.uth.gr	
2. LEARNING OUTCOMES		

Learning Outcomes

- have an understanding of the legal and institutional nature of the European project

- have an understanding of main pillars of the economic architecture of the European Union

- have an understanding of the role of the Member States in the European project, their obligations and rights and their interaction with the European supranational authority

- have an understanding of the functioning of the Union's economic processes and their impact on the state macro and micro finances of the Member States

- have an understanding of the role of the EU as a political and economic actor in the international system

General Competencies

Adapting to new situations and responding to new challenges
Decision making ability
Capacity of working self-sufficiently
Teamwork ability
Working in an international environment
Working in an interdisciplinary environment
Generating new research ideas

3.MODULE CONTENT

Despite its failures and inefficiencies, the EU is considered to be the most accomplished experiment of economic, social and political integration in human history. Given its inherent complexities, this Course aims at guiding the students through its the institutional labyrinth and the complexities of its policies but mainly through its constantly reshaping and reforming structure and architecture. As the European Union is one of the world's largest and most important economies, the course also has comparative perspective and aims at exploring its economic potential in the international economic system. A dundamental feature of the course refers to the role of the member states in the EU integration process and the interaction between the supranational EU authority and national sovereignty. The lectures range from considering the basic structures and principles of the European Union to focusing on various specialized areas of law.

Each course will give the students an understanding of the laws and policies that regulate the internal market of European Union, the Constitutional Freedoms and Fundamental principles as well as of the relations between EU law with national laws.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	A balanced blend of formal and informal discussion, lecturing and assigning of home work
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	e-class and MS TEAMS
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:

TypeΕἶδος	DescriptionΠεριγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50
	Preperation for the final exam	39
	Final Examination	2
	Total	210

Formatted Table

MODULE ASSESSMENT	final oral or written exam.

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Ναπολέων Μαραβέγιας (επιμ.), Ευρωπαϊκή Ένωση. Δημιουργία

Εξέλιξη Προοπτικές (Αθήνα: εκδόσεις Κριτική, 2016)
- Σ. Βέρνυ και Α. Κόντης (επιμ.), Ευρωπαϊκή Ολοκλήρωση. Οι πολλαπλές κρίσεις και οι προκλήσεις του μέλλοντος. Τιμητικός τόμος για τον Παναγιώτη Ιωακειμίδη (Αθήνα: Εκδοσεις Παπαζήση, 2017)
- Οδυσσέας Σπηλιόπουλος, Δίκαιο της Ευρωπαϊκής Ένωσης και Οικονομική Ολοκλήρωση (Αθήνα: Εκδ. Διόνικος, 2010).

Research Methods Seminar II

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE	**SEMESTER OF STUDY**	A
MODULE TITLE	Research Methods Seminar II	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures and hands-on training	3 HOURS	2

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	Research Methods Seminar I
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO	NO

ERASMUS STUDENTS	
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_190/

2. LEARNING OUTCOMES

Learning Outcomes

This seminar provides a comprehensive introduction of statistics for business and economics and an intensive, hands-on introduction to the principles and practice of data visualization. As a result of taking this course, the students should be able to: 1. Apply and interpret descriptive statistics. 2. Formulate, identify and apply inferential statistics. 3. Analyse the association of variables using regression and ANOVA analyses. 4. Conduct empirical work using statistical software and interpret results 5. Take their data from Excel into visualization software, transform it to easy-to-understand dynamic graphics and interactively explore what-if scenarios.

General Competencies

This course provides the elementary foundations in statistics as well as the prerequisites for understanding the trends and challenges in data analysis and visualization.
The students will find the resources to learn the science behind data analysis, how businesses use data to their advantage. Utilizing the tools that support Business Intelligence can give organizations an edge, letting them make better, data-driven decisions.

3.MODULE CONTENT

Learning module 1: Statistical analyses using statistical package IBM SPSS Statistics

- Data import, data management
- Quantitative and qualitative variables, attributes, scales of measurement (nominal, ordinal, interval and ratio).
- Importing a survey questionnaire to SPSS
- Data Presentation: tabular and graphical. Statistical charts, crosstabulation and independence of data with special reference to attributes. Coding, missing values, conditional and arithmetic operations.
- Descriptive statistics: measures of central tendency, measures of dispersion.
- Inferential statistics. Basic statistical tests in SPSS. T-tests, analysis of variance (ANOVA), Chi-square test and contingency tables.
- Bivariate data: Definition, scatter diagram, simple, partial and multiple correlation, determine the strength of the correlation via the correlation coefficient. Simple and multiple linear regression. Multiple linear regression assumptions and diagnostics.

Learning module 2: Visual analytics

- Basic plotting and visualization. Statistical and specialty plots in Business Intelligence and Analytics Software Tableau.
- Best practices for creating different plot types, motion charts, interactive visualizations.
- Building, sharing and customizing automated reports including data, text and graphics.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	In situ and online lectures with hands-on computer training classes.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Teaching and learning process will be enhanced by eclass, email and MSTEAMS. Software licenses (IBM SPSS Statistics and Tableau latest versions) are offered to students at the beginning of the course. After completing the course, students have free one-year Tableau licenses through "Tableau for Students software licensing program".
ORGANISATION OF TEACHING	The hands-on training is conducted in the Computer Lab. Hands-on exercises and relevant materials (software user manuals, e-books, dictionary of statistical terms, white papers) will be provided for students to try out the applications, and to experiment with data analysis and interpretation and analytical reasoning in reports. More specifically, the workload of the module is analyzed as follows:

Type~~Είδος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39
	Study at home	10
	Completion of assignments	-
	Preparation for the final exam	9

Formatted Table

Final Examination	2
Total	60

MODULE ASSESSMENT	Online exam in the classroom

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Aljandali A. (2016). Quantitative Analysis and IBM® SPSS® Statistics. A Guide for Business and Finance. Springer Cham. Hardcover ISBN 978-3-319-45527-3 (e-book) - Cleophas, Ton J., Zwinderman, Aeilko H. (2015). SPSS for Starters and 2nd Levelers. Springer International Publishing, ISBNs 978-3-31-920599-1, 978-3-31-920600-4. (e-book) - Martin Lee Abbott (2016). Using Statistics in the Social and Health Sciences with SPSS® and Excel®. John Wiley & Sons, Inc. Print ISBN: 9781119121046 Online ISBN: 9781119121077 - Lind D. and Marchal W. and Wathen S. (2018). Statistical Techniques in Business and Economics, 17th Edition, McGraw Hill Education.

Selective Modules

LABOUR RELATIONS

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	B
MODULE TITLE	Labour Relations		

274

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS	
Lectures – Exercises – Case studies	3 HOURS	7	

TYPE OF MODULE	OPTIONAL
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

Upon successful completion of the module, students should:
- Know and comprehend the basic theoretical and applied concepts of the labour relations scientific subject.
- Understand the dynamic and complex contemporary working environment that shapes modern labour relations.
- Be familiarized with the basic concepts regarding the personal and collective aspects of labour demand and labour supply.
- Be familiarized with the way labour market institutions operate and affect contemporary labour markets.
- Know the basic theoretical and empirical models and concepts in alternative dispute resolutions in the workplace.
- Critically assess policy implications as well as the basic fundamental characteristics of the native labour market.

General Competencies

The labour relations subject is multidisciplinary and multidimensional with many scientific fields contributing in its understanding. Such fields are Labour Economics, Human Resourse Management, Work Sociology and Labour Law. In general, the labour relations module focus on understanding the individual and collective dimensions and implications of the ways labour market demand and supply work. The students of the module will get familiarized with concepts and models from all the above academic fields with the aim to understand the ways labour relations formulate and operate in the contemporary, internationalized and competitive native labour markets. The basic competencies that the students should acquire from the lectures are:

- Search, use and synthesize data and information necessary for decision making in the labour relations field, with the use of the necessary technological tools.
- Decision making.
- Individual homework.
- Team homework.
- Demonstration of social, work and ethical responsibility with respect to gender issues.
- Development of free, creative and inferential thinking.

3.MODULE CONTENT

The basic aim of the module is to offer students with the knowledge on the ways contemporary labour relations are shaped between employers and employees, as well as to understand the way institutions mediate on these formulated labour relations.

Labour relations in modern labour markets are more individualized and less collective due to the ongoing decrease of trade unions' power, the increased labour market competitiveness and the national fundamental labour market characteristics.

Based on the above, in the lectures there will be an extensive discussion and presentation of several issues regarding labour relations, starting with the theoretical economics framework of the way modern labour markets operate and focusing on the role of each implicated actor has in the labour market (such as the employees, employers, the state and the labour unions).

The lectures will also focus on issues related to work negotiations, employee demands and the means used to success in these demands, such as strikes. Under this framework, special focus will be given to alternative dispute resolution concepts that are discussed in the relevant literature such as mediation and the like. There will also be studied relevant work-related case studies of good practices and intense labour disputes, that occurred at the national and the international level.

Certain aspects of contemporary challenges that shape modern labour relations will also be presented such as the role of technology, the globalization, the clients, labour market discrimination and alternative pay schemes.

Performance in the module will be assessed with individual and team homework and final written exams.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Use educational platforms for lectures such as MSTEAMS, email, eclass and the like.

ORGANISATION OF TEACHING	The lectures will be held in the Economics Department, although the students have the option to participate online. The study material will be distributed through the module's eclass page. More specifically, the workload of the module is analyzed as follows:

~~Kind~~ Type	Description	WORKLOAD (HOURS)
	Lectures	39
	Study at home	70
	Completion of assignments	40
	Preperation for the final exam	60
	Final Examination	01
	Total	210

MODULE ASSESSMENT	Assessment: 3) Individual homework and/or team homework (40%), 4) Final written exam (60%)

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Boeri T., van Ours, J. (2021). The Economics of Imperfect Labour Markets. (eds.) Princeton University Press, pp. 736.

- Dibben P., Gilton K., Skillman G. (2011). Employment Relations. CIPD Publications, pp. 368.
- Jacobsen J. P., Skillman G. L. (2004). Labor Markets and Employment Relationships: A Comprehensive Approach. (eds.) Blackwell Publishing, USA, pp. 582.
- Kearney R. C. (2011). Labour Relations in the Public Sector. (eds.) Taylor & Francis, 4th ed., pp.406.

MEASUREMENT OF PRODUCTIVITY AND EFFICIENCY

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE	**SEMESTER OF STUDY**	B
MODULE TITLE	MEASUREMENT OF PRODUCTIVITY AND EFFICIENCY	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures - Exercises - Actions	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO	NO

ERASMUS STUDENTS	
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

The course aims to provide students with the tools of applied economic analysis to be able to answer the following questions:

• How can I determine the production function of an economic unit?

• How can I measure the technical efficiency of organizations and other economic units?

• How can I measure the productivity of organizations and other economic units?

• How can I identify and propose optimization goals for the production process of organizations and other economic units?

This course is designed to equip students with the knowledge and analytical skills necessary to address these questions in the context of economic analysis and optimization.

General Competencies

The student will have the ability to measure productivity and efficiency using the Data Envelopment Analysis (DEA) method. They will also be able to recognize, understand, and create Malmquist productivity indices and apply the measurement of technical efficiency to organizations and economic units such as banks, hotels, hospitals, and others.

This indicates that the student will acquire skills related to advanced economic analysis techniques, particularly in the context of productivity and efficiency measurement in various types of organizations and economic entities.

3. MODULE CONTENT

The course consists of lectures with a particular emphasis on applied specialized topics in the economics of production. The central aim of the course is to understand fundamental concepts of

economic production, with an emphasis on learning and applying methodologies for measuring productivity and efficiency in economic units and organizations.

• Basic introductory concepts related to technology and scale efficiency.

• Profit maximization theory and scale efficiency.

• Production theory and production frontier analysis.

• Parametric and non-parametric approaches to measuring production efficiency.

• Measurement of productivity using the Malmquist index.

This course covers a range of topics related to the economics of production, focusing on practical applications and measurement methodologies for productivity and efficiency in various economic units and organizations.

4. TEACHING AND LEARNING METHODS EVALUATION	
TEACHING METHOD	in-person and remote activities or learning (hybrid)
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	"Supporting the learning process through the e-class electronic platform. Using email and Microsoft Teams." This statement indicates the use of electronic platforms and communication tools like email and Microsoft Teams to facilitate and enhance the learning process.
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:

Type Είδος	Description Περιγραφή	WORKLOAD (HOURS)
Lectures		39
Study at home		80

Formatted Table

	Preperation for the final exam	90
	Final Examination	1
	Total	210
MODULE ASSESSMENT	100% Individual Presentation of a Scientific Article.	

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	• Coelli, TJ, Rao, D.S.P., O'Donnell CJ, Battese GE. (2005). An introduction to efficiency and productivity analysis, Second edition, Springer. • Ray, S. C. (2004). Data envelopment analysis: theory and techniques for economics and operations research. Cambridge university press • Varian R. H. (1992). Microeconomic Analysis, Third edition, Norton.

REAL ESTATE MARKET

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	Real estate market		

281

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures – assignments - seminars	3 HOURS	7

TYPE OF MODULE	Elective course
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_103/

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course students are expected to:

- understand the basic principles of built environment configuration
- understand the basic principles of the functioning of the real estate market and the peculiarities of property and the real estate market
- understand the location choice of activities and the impact on the values and uses of space
- understand the basic mechanisms of supply and demand for real estate
- understand the role of real estate in organisations and the importance of its strategic management
- understand how the wider economic, social, political and technological changes affect the demand and supply of properties and the functioning of the real estate market

- collect, analyse (using basic techniques and tools) and interpret data, and draw conclusions about the production of built environment and the functioning of the real estate market

General Competencies

It is useful students to have general knowledge and analytical skills concerning the spatial organisation of the economy at different spatial scales (urban, regional, national) and basic knowledge of economics

3.MODULE CONTENT

- Introduction: space, economy and the real estate market
- Creation and development of the urban environment
- Location choices and demand for real estate
- Land values and land use
- Definition and characteristics of the real estate and its market
- The function of the real estate market
- Real estate development and the production of built environment
- Civil law and legal framework concerning real estate
- Institutional framework for the production of real estate and the formation of built environment
- Real estate management
- Structural changes at technological, social, political and economic level and new dynamics in the organisation of space

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	In-person/ Online/ Mixed

USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support for the learning process through the e-class platform and MSTeams. Communication via email.
ORGANISATION OF TEACHING	The delivery of the course takes place in the classrooms of the Department of Economics. Informative and educational material is distributed through the course page in the e-class

More specifically, the workload of the module is analyzed as follows:

TypeΕίδος	DescriptionΠεριγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	35
	Completion of assignments	50
	Preperation for the final exam	15
	Final Examination	2
	Total	142

Formatted Table

MODULE ASSESSMENT	Written examinations or individual or group assignments

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	• Deakin M. (ed.) (2019) *Local Authority Property Management: Initiatives, Strategies, Reorganisation and Reform*. Routledge • DiPasquale D. and Wheaton W.C. (1996) *Urban Economics and Real Estate Markets*, Prentice-Hall

- McDonald J. και McMillen D. (2007) *Urban Economics and Real Estate, Theory and Policy*, Blackwell
- O'Sullivan A. (2003) *Urban Economics*, 5th ed. McGraw-Hill

3rd Semester

MODULE	TYPE	ECTS
DISSERTATION	COMPULSORY	30
Alternative, instead dissertation all the following modules		
Financial Management	COMPULSORY	7
International Relations and Strategy	COMPULSORY	7
Technology Strategy	COMPULSORY	7
Business Strategy	COMPULSORY	7
Research Methods Seminar III	COMPULSORY	2

DISSERTATION

1.GENERAL	
MODULE TITLE	DISSERTATION

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**
		30

TYPE OF MODULE	SELECTIVE
PROREQUISITE MODULES::	MODULES OF 1ST AND 2ND SEMESTER
LANGUAGE OF TEACHING AND TESTING:	Greek, English
THE MODULE IS OFFERED TO ERASMUS STUDENTS	No
MODULE'S URL	eclass.uth.gr/eclass/courses

2. LEARNING OUTCOMES

The main learning objective to be achieved during the completion of the master's thesis is for the student to develop the necessary knowledge background related to the critical understanding of the subject of the master's thesis, as well as the systematic application of research methodologies and techniques. Specifically, upon completion of the master's thesis, the student should demonstrate that:

• Understands, critically evaluates, and applies techniques for defining and developing a research topic that constitutes a relevant research problem in the field of Applied Economics.

• Selects and formulates specific research objectives and problems that exhibit (to some extent at a master's level) scientific originality and practical relevance.

• Understands and assesses the relationships between research objectives-problems, scientific literature, research methodologies, data collection and analysis techniques, drawing conclusions, and ultimately methods for making managerial decisions.

• Applies research search processes and engages in the critical review of scientific literature relevant to the research topic.

• Conducts research and formulates conclusions that are understandable and lead to interesting results.

• Understands the differences between quantitative research and qualitative research strategies and applies them either independently or in combination, depending on the specific requirements of the research.

• Understands the advantages and disadvantages of research techniques, systematically applies research techniques, and documents the choices made.

• Relies on primary and/or secondary data, which are evaluated for sufficiency, reliability, and validity.

• Formulates understandable and useful conclusions that demonstrate knowledge of the subject and the ability to critically assess other relevant published research results.

• Understands and formulates limitations and weaknesses of the research work.

• Identifies possible directions for future research in the specific area and in accordance with the initial research objectives, and finally

• Broadens their overall knowledge background to enhance further research and professional pursuits.

General Competencies

The postgraduate thesis aims for the student to develop, through a primarily personal research process and under the guidance of the supervisor, a thesis on the chosen subject-object proposed following a relevant proposal. The aforementioned thesis should present:

• A clearly defined contribution to the field of Applied Economics, either through the conduct of original research or through the examination and application of relevant theories and methodologies.

• A well-documented research methodology and the systematic application and utilization of appropriate techniques for data collection, analysis, and processing.

• Comprehensive knowledge of the research subject of the thesis, including the ability to critically evaluate relevant literature.

3. MODULE CONTENT

The research objectives and the content of each postgraduate thesis (Master's thesis) should be relevant to the academic subject of the Master's program (MSc) and should fall within a specific academic field or areas of knowledge.

The research methods involve techniques for collecting and processing reliable data, as well as their documentation through scientific methods (e.g., field research, literature review, statistical analysis, etc.).

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	During the semester in which the postgraduate thesis (MSc thesis) is being completed, the supervising Professor supports the student by providing, in the best guiding manner, the scientific knowledge and expertise in the specific subject of the thesis. This support aims to facilitate the student's gradual progress in writing the thesis.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Supporting the Learning Process through the e-class Electronic Platform

ORGANISATION OF TEACHING	More specifically, the workload of the course is analyzed as follows:

Type	Description	Workload(hours)
Lectures	This concerns the lectures and presentations that will take place in the Research Methodology Seminar I & II.	2*20=40
Preparation of an MSc thesis proposal	Involves composing the proposal for the MSc thesis.	20
Preparation of Dissertation	It concerns the time required for conducting case studies and implementing exercises, as previously mentioned (Assessment Method).	536
Final Examination	It concerns the duration of the final examination	1
Participation in other activities	Meetings with the Professor for Progress Feedback	3
	Σύνολο	**600**

MODULE ASSESSMENT	The MSc thesis is presented for public defense by the student. The thesis is evaluated by the supervisor and two assessors, who must collectively agree on the final grade for the postgraduate thesis, which may also be the average of the three grades.

The evaluation criteria for the thesis include:

• The significance of the contribution of the specific research to the academic subject of the MSc program.

• Clear definition and significance of the research objectives. |

• Understanding of the research subject and the ability to critically evaluate and utilize relevant literature.

• Understanding of research methodology, sufficiency of the research methodology, and systematic use of appropriate research techniques.

• Completion of the research and the significance of the results and conclusions.

• Writing style of the thesis and the technical presentation quality of the work, which should conform to citation style standards.

• Presentation and public defense of the thesis.

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:

- *Calabrese R. L. (2012), Getting It Right: The Essential Elements of a Dissertation, 2nd Edition, Rowman & Littlefield Education.*

- *Cohen L., Manion L., Morrison K. (2007), Research Methods in Education, 6th Edition, London & New York, Routledge.*

- *Murray R. (2006), How to Write a Thesis, 2nd Edition, Berkshire, UK, Open University Press.*

- *Orna E. & Stevens G. (2009), Managing Information for Research: Practical help in researching, writing and designing dissertations, 2nd Edition, Buckingham, UK, Open University Press.*

- *Saunders M., Thornhill M., Lewis, P. (2012), Research Methods for Business Students, 6th Edition, Harlow, Essex, UK, Pearson.*

- *Yin R. K. (1994), Case Study Research Design and Methods, 2nd Edition, London & New Delhi, Sage.*

- *Bell J. (2007), Πως να συντάξετε μια Επιστημονική Εργασία: Οδηγός Ερευνητικής Μεθοδολογίας, Αθήνα, Εκδόσεις Μεταίχμιο.*

- *Eco U. (2001), Πως γίνεται μια Διπλωματική Εργασία, Αθήνα, Εκδόσεις Νήσος.*

- *Ζαφειρόπουλος Κ. (2015), Πως γίνεται μια Επιστημονική Εργασία: Επιστημονική Έρευνα και Συγγραφή Εργασιών, Αθήνα, Εκδόσεις Κριτική.*

- *Θεοφιλίδης Χ. (2005), Η Συγγραφή Επιστημονικής Εργασίας: Από τη Θεωρία στην Πράξη, Αθήνα, Εκδόσεις Τυπωθήτω-Δαρδανός.*

- *Μπέλλας Θ. (1998), Δομή και Γραφή της Επιστημονικής Εργασίας, Αθήνα, Εκδόσεις Ελληνικά Γράμματα.*

- *Μπουρλιάσκος Β. Γ. (2010), Πως γράφεται μια Επιστημονική Εργασία: Πρακτικός Οδηγός, Συγγραφή Επιστημονικής Εργασίας και Βιβλιογραφική Έρευνα, Αθήνα, Εκδόσεις Διόνικος.*

- *Τοκμακίδης Σ. Π. (2008), Οδηγός για τη Συγγραφή Διπλωματικών Εργασιών, Αθήνα, Ιατρικές Εκδόσεις Π. Χ. Πασχαλίδης.*

Alternatively instead dissertation the following four modules and the Seminar

FINANCIAL MANAGEMENT

1. GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE	(ECON_P_148)	**SEMESTER OF STUDY**	A
MODULE TITLE	FINANCIAL MANAGEMENT		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**
Lectures - Exercises	3 hours	7

TYPE OF MODULE	COMPULSORY
PREREQUISITE MODULES:	No
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	No
MODULE'S URL	eclass.uth.gr/

2. LEARNING OUTCOMES

Learning Outcomes

The course of Financial Management is connected with the courses of Accounting, Finance, Investment Valuation, and Portfolio Management and is influential towards but also is influenced by these courses but in no case it is identical with them. On the contrary, Financial Management creatively adds to these fields.

General Competencies

By fully attending this course, students will have created a clear, complete, and multi-prismatic perspective of the underlying theory and economic implications will be familiarized with the methods and the tools necessary to assess and critically evaluate investment plans, studying financial components scientifically, and reaching safe and accurate conclusions about the viability and the financial health of firms. They will have a clear perspective about the differences between fundamental and market evaluation and will be able to efficiently avoid the deviations from objective estimations that stem from the bias and subjectivity inherent in the majority of investors.

They will be able to judge whether it would be better to finance a specific investment by lending or by issuing new shares. They will also be able to detect and measure the most important determinants for safely estimating the value, the profitability, and the perspectives of a firm to grow. Moreover, they will become fluent in using the appropriate tools for reducing the risk emanating from the existing capital structure but also from default risk, exchange rate risk, etc. while also will develop capacities to better allocate the existing resources in order to achieve the best risk-adjusted return by taking into consideration the special features of the growth potentials as well as the possibilities to adjust prices to news regarding the specific investment.

3. MODULE CONTENT

This course primarily focuses on investment decision criteria based on the Net Present Value, the Future Value, and the discount rate. Moreover, it offers insights concerning how bonds function by focusing on the market value, the coupon rate, and the yield to maturity. Furthermore, it compares financing through lending with financing through issuing new shares and offers in depth analysis of the advantages and disadvantages of each decision concerning this dilemma. The percentage of re-capitalization, the profit holdings, the perspectives of growth, and the market share constitute the axis of this analysis. The basic financial ratios are analyzed that reflect the financial condition of the firm. Moreover, the role of the Assets, the Liabilities, and the Equity are analyzed, which are crucial for fighting deficits in balance sheets.

The second part of this course focuses on the concepts of performance and risk which are applied in alternative investments and constitute the basis of fundamental and technical analysis and for estimating the optimal weights of a range of alternative financial assets. Furthermore, the Fama-French 5-factor model is applied and the market efficiency theory is analyzed as well as the possibilities of viability and profitability that it can offer.

The third part of this course focuses on risk management (credit risk, exchange risk, country risk) and is based on the impacts of risk premia on the success of investments and on the difficulties they cause to the efficacy of Financial Management. Emphasis is given on the derivatives market that is employed for hedging against risk stemming from the unpredictability of market prices as these instruments are also adopted for speculative purposes.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	In-person and online

USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Teaching is supported by the e-class platform. Use of email, MSTEAMS
ORGANISATION OF TEACHING	Teaching takes place in the classes of the Department of Economics. Informative material is distributed through the course's e-class webpage. ……………………………………………………………………………………… … More specifically, the workload can be divided as indicated below:

Type	Description	WORKLOAD (HOURS)
Lectures		39
Study at home		68
Completion of assignments		30
Preparation for the final exam		70
Final Examination		3
Total		210

MODULE ASSESSMENT	Final examination (written) (70%) and individually-prepared writing task of the semester 4.000 words (30%)

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	• Principles of Corporate Finance, Brealey, Myers, and Allen, Utopia editions, 2nd edition • Papadamou S, and Siriopoulos C., 2015. Principles of Investment Valuation: Financial and Socio-economic perspective. [e-book.] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/4365

INTERNATIONAL RELATIONS AND STRATEGY

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE		SEMESTER OF STUDY	A
MODULE TITLE	International Relations and Strategy	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PREREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS	NO

OFFERED TO ERASMUS STUDENTS	
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected to:

- understand the basic concepts and terms in the field of International Relations, defence and security

- understand the interdependence of international economic and political phenomena

- have an understanding of international law and the fundamental legal norms in the international system

- understand the points of friction in Greek-Turkish relations

- have an understanding of the content and the main evolutionary processes in the field of strategy

General Competencies

Adapting to new situations and responding to new challenges
Decision making ability
Capacity of working self-sufficiently
Teamwork ability
Working in an international environment
Working in an interdisciplinary environment
Generating new research ideas

3.MODULE CONTENT

The scope of this introductory course is to shape the theoretical background that would enable the students to understand and interpret the developments of the international politics. Therefore it analyses the role and the function of international institutions and regimes and bacic diplomatic procedures. It also discusses basic terms of the discipline of the international relations and international law (State-Sovereignty and Recognition, Exclusive Economic Zone, Continental Shelf et. al.) as well as the main aspects of Greece's Foreign Policy. As the course serves as preparatory seminar to courses with similar content following in later semesters, it also examines the main schools of thinking within the discipline of International Relations: realism - neo-realism - idealism – liberalism, structuralism and so on. The Assessment of the course is based on a final oral or written exam.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	A balanced blend of formal and informal discussion, lecturing and assigning of home work
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	e-class and MS TEAMS
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:

Formatted Table

TypeΕίδος	DescriptionΠεριγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50
	Preperation for the final exam	39
	Final Examination	2
	Total	210

MODULE ASSESSMENT	Oral or written exams

5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	- Antonio Cassese, Διεθνές Δίκαιο, εκδόσεις Gutenberg - Jill Steans-Loyd Pettiford, Εισαγωγή στις Διεθνείς Σχέσεις, εκδόσεις Κων. Τουρίκη - Ανδρέας Στεργίου, Η Ελληνοτουρκική Διένεξη στο Αιγαίο. Αντίσταση στο Μέλλον, εκδόσεις Κριτική

TECHNOLOGY STRATEGY

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE	**MA_41**	**SEMESTER OF STUDY**	**A**
MODULE TITLE	**Technology Strategy**		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**
Lectures – Course work	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK

| **THE MODULE IS OFFERED TO ERASMUS STUDENTS** | NO |
| **MODULE'S URL** | eclass.uth.gr |

2. LEARNING OUTCOMES

Learning Outcomes

Upon successful completion of the course, students will be able to understand the developments in the modern technology environment and plan appropriate policies and practices for their effective management. Students will be able to:

- Understand the interaction between economics and technology
- Connect theoretical knowledge with technological and business reality
- Recognize the primary importance of innovation and organizational learning
- Understand the world of intellectual property (IP)
- Understand the basic functions of Technology Strategy
- Implement individual tools, policies and practices of Technology Strategy

General Competencies

- Understanding how the theories of Economics of Technology and Technology Strategy apply to the modern economic environment.
- Solving practical problems encountered in the technologically fluid business environment.
- Planning of Technology Strategy policies and practices
- Improving the ability of students to communicate, collaborate and lead on issues of technology and innovation.
- Teamwork
- Perception of the innovative capabilities of the business

3. MODULE CONTENT

Technical change and economic development (Economics of knowledge and innovation: key concepts)

- Innovation and Technical Change
- Industrial and technological revolutions, techno-economic paradigms
- Knowledge, technology, innovation and entrepreneurship
- Diffusion of innovation and path dependence
- Disruptive innovation, Socio-technical Systems and Socio-technical Transition

Economics of technology

- Business knowledge creation process
- Path Dependence and Absorptive Capacity

Technology **Strategy**

- Types of Technology Strategy
- Levels of Technology Strategy Development
- Tools and Methods for Developing Innovative Skills
- Architectural innovation
- Technology platforms and ecosystem strategies
- Modularity
- Product platforms
- Reasons for failure of large companies
- Technology alliance strategies

Technology **and Business strategy**

- Fundamental skills
- Leveraging innovation, complementary assets, and appropriability regimes
- Co-opetitive games and platform strategy

Intellectual Property and exploitation of innovation

The framework for the study and analysis of intellectual property

- Intangible assets:
  - o Intangible assets investment
- Intellectual Property Rights (IPRs):
  - o Intellectual Property Protection
  - o Patents
- IP institutions and mechanisms (OBI, EPO, WIPO, etc.)
- Intellectual Property Management – Strategies

Technology **Strategy Planning**

- Technology Foresight
- Technology Monitoring
- Scenario development and analysis
- Technology Road-Map (TRM)

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed/Hybrid
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Learning process support through the e-class online platform. Use email, MS TEAMS.

ORGANISATION OF TEACHING	The course delivery takes place in the rooms of the Department of Economics. Informational material is distributed through the course page in the e-class platform and the course channel in MS Teams.

More specifically, the workload of the module is analyzed as follows:

Type~~Είδ ος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39
	Home study	78
	Completion of assignments	50
	Preparation for final exam	40
	Final Examination	3
	Total	210

Formatted Table

MODULE ASSESSMENT	In-course assignments 30% Final course essay 70%

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	Bessant J και Tidd J. (2017) Καινοτομία και Επιχειρηματικότητα, 3η Αγγλική Έκδοση, Εκδόσεις Τζιόλα (in Greek) Schilling, M. A. (2017) Η Στρατηγική Διοίκηση της Τεχνολογικής Καινοτομίας, 4η Αγγλική Έκδοση, Broken Hil (in Greek)l Tidd J. and Bessant J. (2018) Στρατηγική Διοίκηση Καινοτομίας, Broken Hill (in Greek) White M. and Bruton G. (2010) Η στρατηγική διαχείριση της τεχνολογίας και της καινοτομίας. Κριτική (in Greek) Σπαής Γ. (2007) Εισαγωγή στη Διαχείριση Τεχνολογικών Καινοτομιών, Κριτική (in Greek) Dodgson M., Gann D.M., and Salter A. (2008) The Management of Technological Innovation, Oxford University Press Dodgson M., Gann D., and Salter A. (2005) Think, Play, Do: Innovation, Technology, and Organization: Technology, Innovation, and Organization, Oxford University Press Nonaka I. and Takeuchi H. (1995) The Knowledge-Creating Company: How Japanese Companies Create the Dynamics of Innovation, Oxford University Press

BUSINESS STRATEGY

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	BUSINESS STRATEGY		
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**		**ECTS**
	3 HOURS	7	
TYPE OF MODULE	COMPULSORY		
PREREQUISITE MODULES:	NO		
LANGUAGE OF TEACHING AND TESTING:	GREEK		
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO		
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_147/		
2. LEARNING OUTCOMES			
Learning Outcomes			

Upon completion of the module, students should be able to:

- Understand the basic principles of Strategic Business Management and their impact on business operations
- Plan and evaluate the operational, competitive and corporate strategy of a firm
- Recognize and evaluate the strategic movements of modern businesses, proposing possible improvements.
- Interpret the effect of external factors on business operations
- Investigate and plan the internationalization of a firm

General Competencies

Upon successful completion of the module, students will develop and cultivate basic professional and social skills, namely:

- Search, analysis and synthesis of data and information, using necessary technologies
- Adaptation to new situations
- Decision making
- Autonomous work
- Teamwork
- Work in an international environment Respect for diversity and multiculturalism
- Exercise criticism and self-criticism
- Promotion of free, creative and inductive thinking

3.MODULE CONTENT

• Strategic analysis of the external environment: analysis of the macro (PEST-DG) and micro environment (Porter's 5 forces) of the business.

• Corporate mission, vision, strategic goals, strategic considerations.

• Business strategy direction: stability, growth, rescue-turnaround.

• Strategies for achieving competitive advantage: cost leadership, differentiation, focus.

• Internationalization strategies of the company: alliances, joint ventures, acquisitions, exports, oligopolistic reaction theories, selective paradigm theory (Dunning).

• Ways to implement strategy: Acquisitions, Mergers and Strategic Alliances: Analyzing,

deciding and ensuring the success of strategic development through acquisitions, mergers and strategic alliances.

• The technological strategy, internally and externally.

• Strategy evaluation and selection: Rumlet's model, acceptability analysis, feasibility analysis, balanced scorecards analysis. Strategy implementation.

• Portfolio techniques for making strategic decisions: experience curve, BCG matrix, GE matrix, Hofer's product/market evolution matrix, life cycle matrix, portfolio cube, risk cube.

4. TEACHING AND LEARNING METHODS EVALUATION	
TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Learning process support through the e-class online platform. Use email, MS TEAMS
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:

TypeΕίδος	DescriptionΠεριγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	90
	Completion of assignments	49
	Preparation for the final exam	30
	Final Examination	2
	Total	210

Formatted Table

MODULE ASSESSMENT	Written exam and group assignments

305

5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	Textbooks in Greek • Παπαδάκης Β. (2016), *Στρατηγική των Επιχειρήσεων: Ελληνική και Διεθνής Εμπειρία,* Τόμος Α, 7 η εκδ., Εκδόσεις Μπένου: Αθήνα • Senior B., 2017. Οργανωσιακή Αλλαγή. Εκδόσεις Broken Hill, Αθήνα. Academic journals (in alphabetical order) • Academy of Management Executive • Harvard Business Review • Journal of Business Research • Journal of International Business Studies (AIBA) • Long Range Planning (EIBA) • Strategic Management Journal (SMS)

RESEARCH METHODOLOGY SEMINAR III

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	C
MODULE TITLE	Research Methodology III		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures - Exercises – Practices- Use of EXCEL and R programming language	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

The teaching of the course " Research Methodology III " aims to:

• Familiarize students with the necessary knowledge and techniques that enable researchers of economic phenomena to quantify and estimate economic relationships governing the operation of economic units and markets using statistical methods.

• Equip students with the necessary tools for verifying and evaluating econometric models and conducting forecasts.

• Introduce students to the analysis of time series data.

By the end of the course, students should be able to:

• Specialize and select an econometric model.

• Estimate a classic linear model.

• Test, examine, and evaluate an econometric model.

• Evaluate and address issues related to violations of the assumptions of a model.

• Design, estimate, and test time series models and perform forecasts.

• Apply the estimated models using the R programming language.

General Competencies

- Data and information search, analysis, and synthesis using the necessary technologies.
- Adaptation to new situations.
- Decision-making.
- Autonomous work.
- Teamwork.
- Work in an international environment.
- Work in an interdisciplinary environment.
- Project design and management.
- Generation of new research ideas.

3.MODULE CONTENT

- Simple and multiple linear regression (OLS): Assumptions, sample estimation, hypothesis testing, significance tests for variables and linear constraints, simple and adjusted coefficient of determination, properties of estimators.
- Violations of assumptions: Autocorrelation, heteroscedasticity, statistical tests (White, Durbin-Watson, Breusch-Godfrey), GLS and FGLS estimators, correlation of explanatory variables and error term, multicollinearity, misspecification.
- Models of limited dependent variables.
- Vector Autoregressive (VAR) models and causality tests.
- Non-stationarity and unit root tests.
- Cointegration and error correction models. Identification in standard and cointegrated systems.
- Time-varying coefficient models.
- Traditional panel data models.
- Dynamic heterogenous panels.
- Non-stationary panels.

4. TEACHING AND LEARNING METHODS EVALUATION	
TEACHING METHOD	Hybrid
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support for the learning process is provided through the use of: (a) The e-class electronic platform, institutional email, and the online course on the MS-TEAMS platform. (b) The R programming language.
ORGANISATION OF TEACHING	The course is delivered within the classrooms of the Department of Economic Sciences, utilizing Microsoft Office 365 tools (Word, Excel, PowerPoint) and the R programming language. Lecture slides and supporting materials for each session are already posted on the e-class electronic platform for students to access during the lecture. The existing technological equipment in the classrooms also allows the use of an electronic whiteboard via a WACOM device, which enables writing on presentations and texts with the ability to save enriched texts and presentations. Enriched texts containing comments on the lectures, as well as solutions to exercises and problems, are also uploaded to the e-class of the course after each lecture. Files containing additional exercises and problems for practice and understanding of the course material are provided for each topic. Solutions and comments for these problems are given either during the lectures or during specified office hours announced by the instructor (in special cases, even through email using students' institutional accounts). More specifically, the workload of the module is analyzed as follows:

Type Είδος	Description Περιγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50

Formatted Table

	Preperation for the final exam	39
	Final Examination	2
	Total	210

MODULE ASSESSMENT	EXAMINATION PERIOD A' SEMESTER
	Individual/Group Assignment: 30%
	Written Exam: 70%
	REPEAT EXAMINATION
	Written Exam: 100%

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Greene, W. H. (2003). Econometric analysis. Pearson Education India.
	- Wooldridge, J. M. (2015). Introductory econometrics: A modern approach. Cengage learning.
	- Gujarati, D. N. (2022). Basic econometrics. Prentice Hall.
	- Stock, J. H., & Watson, M. W. (2015). Introduction to econometrics 3rd ed.
	- Baltagi, B. H., (2008). Econometric analysis of panel data (Vol. 4). Chichester: Wiley.
	- Wooldridge, J. M. (2010). Econometric analysis of cross section and panel data. MIT press.

II 3.5 «Defence Economics and International Relations »

1st Semester

MSc Applied Economics with specialization in Defence Economics and International Relations		
MODULES	**TYPE**	**ECTS**
Public Organizations Management	COMPULSORY	7
Public Economics	COMPULSORY	7
Defence Economics	COMPULSORY	7
Internalional Relations & Strategy	COMPULSORY	7
Research Mathodology Seminar I	COMPULSORY	2

PUBLIC ORGANIZATIONS MANAGEMENT

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	PUBLIC ORGANIZATIONS MANAGEMENT		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_113/

2. LEARNING OUTCOMES
Learning Outcomes
Upon completion of the course, participants are expected to:

. Be able to set goals, plan and monitor activities on behalf of public organization
a. understand the contemporary international reality in the public sector
b. can identify good practices in public management
c. understand and be able to manage the challenges within public organizations
d. realize the value of the contribution of employees to the achievement of the objectives of public organizations

General Competencies

Upon successful completion of the module, students will develop and cultivate basic professional and social skills, namely:

e. Search, analysis and synthesis of data and information, using necessary technologies
f. Decision making
g. Autonomous work
h. Exercise criticism and self-criticism
i. Promotion of free, creative, and inductive thinking

3.MODULE CONTENT

j. Particularities of the public sector
k. Programming
l. Basic management theories
m. The environment of the public sector
n. Organizing in public organizations
o. Communication in public organizations
p. Leading in public organizations
q. Controlling in public organizations
r. Management of changes and innovations in public organizations
s. Special issues in the administration of public organizations

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Learning process support through the e-class online platform, email, MS TEAMS

ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:	

Type~~Είδ~~ ~~ος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39
	Study at home	120
	Preparation for the final exam	40
	Final Examination	2
	Final Examination	2
	Total	201

Formatted Table

MODULE ASSESSMENT	Written exam

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	Textbooks in Greek Πετρίδου, Ε. (2011). Διοίκηση-Μάνατζμεντ. Εκδόσεις Σοφία. Φαναριώτης, Π. (1999). Διοίκηση Δημοσίων Υπηρεσιών και Οργανισμών – Εισαγωγή στο Σύγχρονο Δημόσιο Μάνατζμεντ. Εκδόσεις Σταμούλη. Ραμματά, Μ. (2011). Σύγχρονη Ελληνική Δημόσια Διοίκηση. Εκδόσεις Κριτική. Μακρυδημήτρης, Α. (2009). Προσεγγίσεις στη Θεωρία των Οργανώσεων. Εκδόσεις Κασταντιώτη.

Μακρυδημήτρης, Α. & Πραβίτα, Μ. (2012). Δημόσια Διοίκηση: Στοιχεία Διοικητικής Οργάνωσης. Εκδόσεις Σάκκουλα.

Ρωσσίδης, Ι. (2013). Εφαρμογές του Επιχειρησιακού Μάνατζμεντ στην Ελληνική Δημόσια Διοίκηση. Εκδόσεις Σταμούλη.

PUBLIC ECONOMICS

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	**A**
MODULE TITLE	PUBLIC ECONOMICS		
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**		**ECTS**
	3 HOURS		7
TYPE OF MODULE	COMPULSORY		
PREREQUISITE MODULES:	NO		
LANGUAGE OF TEACHING AND TESTING:	GREEK		
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO		

MODULE'S URL	https://applied.econ.uth.gr/courses/%ce%b4%ce%b7%ce%bc%cf%8c%cf%83%ce%b9%ce%b1-%ce%bf%ce%b9%ce%ba%ce%bf%ce%bd%ce%bf%ce%bc%ce%b9%ce%ba%ce%ae/

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected to:

- o understand in depth the government's interventionism in the economy, and also the aims and objectives this function serves
- o analyze the economic effects of fiscal tools, namely spending & taxation, on the economy and economic activity
- o comprehend the role and effect of the context set by the EU and the eurozone environment with emphasis on the exercise of fiscal policy
- o realize the constraints of fiscal policy and the relationship with the electoral and political cycle

General Competencies

The course aims to help students deepen and specialize their knowledge of public economics and the functioning of the government as a producer of public and social goods such as health, security, education, justice, national defense as well as issues relating to the exercise of fiscal policy.

3.MODULE CONTENT

The course focuses on the analysis of government intervention in the economy and the production of public and social goods, the exercise of fiscal policy, the critical examination of the aims and objectives of government intervention. Issues such as the fiscal budget, electoral cycle and fiscal policy, public choice theory and the conditions for government intervention in the economy to be socially beneficial, are examined.
The main issues of the course include subjects such as: Theories on the role of the government, the nature and characteristics of public goods, fiscal budgeting: public expenditures and revenues with an emphasis on Greece, fiscal deficits and public debt with an emphasis on the case of Greece

4. TEACHING AND LEARNING METHODS EVALUATION	
TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	The learning process is supported through the course's e-class online platform, the use of the official email of the department to communicate with students, and MSTEAMS
ORGANISATION OF TEACHING	The lectures of the course takes place in the amphitheaters of the Department of Economics. Informational and learning material is distributed through the e-class platform. More specifically, the workload of the module is analyzed as follows:

Type	Description	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50
	Preperation for the final exam	39
	Final Examination	2
	Total	210

MODULE ASSESSMENT	Assignment (40%) and final exam (60%)
5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	o Rosen, H., T. Gayer, Β. Ράπανος, & Γ. Καπλάνογλου (2009) Δημόσια Οικονομική, Τόμος Α&Β Εκδόσεις Κριτική o Stiglitz, J. (2009), Οικονομική του Δημόσιου Τομέα, Εκδόσεις Κριτική.

- ○ Δαλαμάγκας, Β. (2003) Εισαγωγή στη Δημόσια Οικονομική, Εκδόσεις Κριτική
- ○ Γεωργακόπουλος, Θ. (1997) Εισαγωγή στη Δημόσια Οικονομική, Εκδόσεις Μπένου
- ○ Κόλλιας, Χ, & Ζουμπουλάκης, Μ. (2021), *Εθνική άμυνα και εθνικά χρέη*. Gutenberg.

DEFENCE ECONOMICS

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	**A**
MODULE TITLE	**Defence Economics**		

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**
	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO

| MODULE'S URL | https://applied.econ.uth.gr/courses/%ce%bf%ce%b9%ce%ba%ce%bf%ce%bd%ce%bf%ce%bc%ce%b9%ce%ba%ce%ae-%cf%84%ce%b7%cf%82-%ce%ac%ce%bc%cf%85%ce%bd%ce%b1%cf%82/ |

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected:
- To have an in depth understanding of the relationship between the national economy and national defence and how it impacts the implementation of national defence policy from the perspective of the availability of resources needed to support and finance the defence efforts of a state.
- To understand the role and importance of economic power in the international system and in international relations and how economic power shapes and influences the overall balance of power of state actors in the international system.
- To understand the economic parameters that govern the operation of defense alliances and the burden sharing between allies with special emphasis on the NATO Alliance.
- To have an in depth understanding of the role and importance of the national defence industrial base as the channel that links national defence with the domestic economy and its industrial and technological sectors.
- To know and understand the issues related to Greek defence needs and the economic constraints in the production of effective deterrent military power.

General Competencies

The course aims to provide students with the knowledge and in-depth understanding of the relationship between the national economy and national defence, thus enabling them to competently understand and analyze the operation of the defence sector and the production of this public good given the omnipresent constraints that national economic capabilities invariably impose.

3. MODULE CONTENT

The course focuses on highlighting and analyzing the dependency links connecting national defence with the economy. Specifically, the bidirectional relationship of interdependence between these two main pillars underpinning states' power. The main axis of the course is the study of national defence using the analytical and methodological tools of economic science. It relates the production of the public good of defence and security to the productive capabilities of the economy, the availability of economic resources need for the production of defence and security, the inevitable opportunity costs that arise in the decision making process concerning the allocation of scarce resources, and also examines the impact of defence spending on key macroeconomic

variables such as growth and investment. Topics presented and analyzed during the lectures include the demand function for military expenditure, arms races, the economic analysis of military alliances, the market – i.e. the production and trade - of weapons systems and defence capital equipment.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Lectures, group discussions, presentations
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	The learning process is supported through the extensive use of the course's e-class platform where lecture notes and reading material are uploaded, emailing to communicate directly with students and the MSTEAMS online lectures platform.
ORGANISATION OF TEACHING	Teaching takes place in the lecture rooms of the Department of Economics. Lecture notes and reading material is distributed through the course's e-class. The workload of the module is as follows:

Formatted Table

TypeΕίδ ος DescriptionΠεριγραφή	WORKLOAD (HOURS)
Lectures	39
Study at home	80
Completion of assignments	20
Preparation for the final exam	40
Final Examination	2
Total	181

MODULE ASSESSMENT	The module is assessed via a course assignment (20%) and a final examination 80%

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	Textbooks: ○ Kollias, C. (2017). *Defence Economics*. Tourikis Publications (in Greek) ○ Kevork, E. & C. Kollias (Eds) (2018). *Applied Economics Studies in Defence and Security*. University of Thessaly Publications (in Greek) ○ M. Zouboulakis, M. & C. Kollias (2021), *National Defence and Sovereign Debt in Greece*. Gutenberg (in Greek) Additionally, students are required to use for study material papers published in peer-reviewed international academic journals such as *Defence and Peace Economics*; *Peace Economics, Peace Science and Public Policy*; *The Economics of Peace and Security Journal*.

INTERNATIONAL RELATIONS AND STRATEGY

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	International Relations and Strategy		
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**		**ECTS**
	3 HOURS		7
TYPE OF MODULE	COMPULSORY		
PREREQUISITE MODULES:	NO		
LANGUAGE OF TEACHING AND TESTING:	GREEK		

THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected to:

- understand the basic concepts and terms in the field of International Relations, defence and security

- understand the interdependence of international economic and political phenomena

- have an understanding of international law and the fundamental legal norms in the international system

- understand the points of friction in Greek-Turkish relations

- have an understanding of the content and the main evolutionary processes in the field of strategy

General Competencies

Adapting to new situations and responding to new challenges
Decision making ability
Capacity of working self-sufficiently
Teamwork ability
Working in an international environment
Working in an interdisciplinary environment
Generating new research ideas

3.MODULE CONTENT

The scope of this introductory course is to shape the theoretical background that would enable the students to understand and interpret the developments of the international politics. Therefore it analyses the role and the function of international institutions and regimes and bacic diplomatic procedures. It also discusses basic terms of the discipline of the international relations and international law (State-Sovereignty and Recognition, Exclusive Economic Zone, Continental Shelf et. al.) as well as the main aspects of Greece's Foreign Policy. As the course serves as preparatory seminar to courses with similar content following in later semesters, it also examines the main schools of thinking within the discipline of International Relations: realism - neo-realism - idealism – liberalism, structuralism and so on. The Assessment of the course is based on a final oral or written exam.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	A balanced blend of formal and informal discussion, lecturing and assigning of home work
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	e-class and MS TEAMS

ORGANISATION OF TEACHING

More specifically, the workload of the module is analyzed as follows:

TypeΕίδ ος	DescriptionΠεριγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50
	Preperation for the final exam	39
	Final Examination	2

Formatted Table

	Total	210
MODULE ASSESSMENT	Oral or written exams	

5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	- Antonio Cassese, Διεθνές Δίκαιο, εκδόσεις Gutenberg - Jill Steans-Loyd Pettiford, Εισαγωγή στις Διεθνείς Σχέσεις, εκδόσεις Κων. Τουρίκη - Ανδρέας Στεργίου, Η Ελληνοτουρκική Διένεξη στο Αιγαίο. Αντίσταση στο Μέλλον, εκδόσεις Κριτική

RESEARCH METHODOLOGY SEMINAR I

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	Research Methodology seminar I		
INDEPENDENT TEACHING ACTIVITIES		**WEEKLY TEACHING HOURS**	**ECTS**
			2
TYPE OF MODULE	COMPULSORY		
PROREQUISITE MODULES:	NO		
LANGUAGE OF TEACHING AND TESTING:	GREEK		

THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Students will be able to do the following:

- To plan a proper design of a research as well as the identification of the central question and the relative assumptions is a necessary precondition for the scientific analysis of any social and economic phenomenon.
- To implement several research methods that based on (i) specific principles and concepts, (ii) selection of appropriate research tools concerning the preparation and implementation of the research (collection and organization of information in databases, sample, sampling procedures, questionnaires, and interviews) and finally (iii) tools and methods for evaluation and analysis of the collected data / information.
- To understand the practice of empirical scientific research which, under an appropriate methodological design, ensures objective measurements and estimations of the examined phenomena and allows the systematic verification of the research's hypotheses.

General Competencies

- Research and analysis of complicate data with the use of the appropriate methods and tools
- Capacity to develop autonomous work
- Capacity to develop team work
- Working in a multidisciplinary environment
- Production of new innovative research ideas

3. MODULE CONTENT

The primary objective of this course is to provide students with adequate knowledge on the logical path of scientific research and the choice of appropriate methods – tools for the analysis of the potential development issues. This specialized knowledge gives to students the opportunity both to design and implement a research and to acquire critical thinking necessary to solve complex issue and problems.

Consequently, the course includes the following:
1. Concepts, principles, importance and purposes of scientific research
2. Identification and formulation of the central problem (research question) and of the assumptions
3. Investigation of the field, literature research
4. Structuring the analysis concerning, investigation of data resources: central assumptions, main themes for investigation, identification of quantitative and / or qualitative variables in the model, selection of appropriate research method

5. Specificities of primary and secondary research, search and selection of data sources
6. Implementation of tools for primary research: sample, sample size, sampling methods, alternative forms of questionnaires, coding questions..
7. Data entry technics and reliability tests
8. Statistical analysis of data: (a) simple exploratory statistical analysis, (b) advanced exploratory analysis: Exploratory Factor Analysis (EFA) and Principal Component Analysis (PCA), (c) Confirmatory Factor Analysis (CFA), (d) regression and projections
9.Verification of the main assumptions of the model, discussion on the findings as regards existing theories and approaches, drawing conclusions.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Mixed (face to face and hybrid) ➢ Use of e-platform, e-class ➢ Use of Ms-Teams programme
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows: | Type	Description	WORKLOAD (HOURS)
---	---	---
	Lectures	20
	Study at home	15
	Completion of assignments	15
	Total	50	
MODULE ASSESSMENT	Final grade is derives from: Writing a scientific assignment (100%) 4.000-6.000 words based on Scientifics articles

5. RECOMMENDED BIBLIOGRAGHY

| Suggested Bibliography: | - Brotherton, B. (2008) Researching Hospitality and Tourism: A Student Guide, London και Thousand Oaks: Sage.
- Δαφέρμος, Β. (2013), Παραγοντική ανάλυση: Διερευνητική με SPSS και επιβεβαιωτική με το LISREL και το AMOS, Θεσσαλονίκη: Ζήτη.
- Ζαφειροπούλος, Κ. (2005), Πως γίνεται μια επιστημονική εργασία; Αθήνα: Κριτική.
- Finn, M., Elliott-White, M., Walton. M. (2000) Research Methods for Leisure and Tourism, Harlow: Pearson Education.
- Grawitz, M. (2006), Μέθοδοι των κοινωνικών επιστημών, Τόμος Α' και Β', Αθήνα: Οδυσσέας |

2nd Semester

MSc Applied Economics with specialization in Defence Economics and International Relations		
MODULES	**TYPE**	**ECTS**
Topics in the Economics and management of Defence and Security	COMPULSORY	7
International Political Economy	COMPULSORY	7
Space Economics	COMPULSORY	7
Selective module *	SELECTIVE	7
Research Methos Seminar II	COMPULSORY	2

*Selective Modules – one of the following		
MODULES	**ΕΙΔΟΣ ΜΑΘΗΜΑΤΟΣ**	**ECTS**
Labour Relations	ΕΠΙΛΟΓΗΣ	7
Measurement of Productivity and Efficiency	ΕΠΙΛΟΓΗΣ	7
Project Management	ΕΠΙΛΟΓΗΣ	7

TOPICS IN THE ECONOMICS AND MANAGEMENT OF DEFENCE AND SECURITY

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	**Topics in the Economics and Management of Defence and Security**		
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**		**ECTS**
	3 HOURS		7
TYPE OF MODULE	COMPULSORY		
PREREQUISITE MODULES:	NO		
LANGUAGE OF TEACHING AND TESTING:	GREEK		
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO		
MODULE'S URL	https://applied.econ.uth.gr/courses/%ce%b5%ce%b9%ce%b4%ce%b9%ce%ba%ce%ac-%ce%b8%ce%ad%ce%bc%ce%b1%cf%84%ce%b1-%ce%bf%ce%b9%ce%ba%ce%bf%ce%bd%ce%bf%ce%bc%ce%b9%ce%ba%ce%ae%cf%82-%ce%b4%ce%b9%ce%bf%ce%b9%ce%ba%ce%b7%cf%84%ce%b9%ce%ba/		
2. LEARNING OUTCOMES			

Learning Outcomes

Through the thematically focused lectures of the course that address various topics in defence and security from an economics methodological and analytical perspective, the students of this module will study, discuss, and analyze themes and issues such as:

- The historical links between economy and war starting from the classical times.
- How political and economic institutions influence and affect in the policy formulation and outcome of defence and security policies focusing on issues of scarce resource allocation between competing needs in the national defence and security sector.
- The economic parameters that govern the operation of the armed forces such as the life cycle costs of weapon systems, procurement decision making, the role of the national defence, technological and industrial base
- Contemporary issues concerning the common European defense and security policy.
- The economic analysis of crime and terrorism.
- Cybersecurity

General Competencies

The course aims to provide students with the knowledge and in-depth understanding of the relationship between the national economy and national defence, thus enabling them to competently understand and analyze the operation of the defence sector and the production of this public good given the omnipresent constraints that national economic capabilities invariably impose.

3.MODULE CONTENT

The course builds on the knowledge base of previous modules and focuses on specialized topics within the broader field of defence and security. The topics are both of a contemporary nature focusing on themes that are of current interest as well as themes that adopt a long-term historical perspective. It aims to further build students' skill in the use and application of economic tools of analysis on various thematic areas related to the field of defense and security by connecting theoretical knowledge with applied analysis and practice.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Lectures, group discussions, presentations
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	The learning process is supported through the extensive use of the course's e-class platform where lecture notes and reading material are uploaded, emailing to communicate directly with students and the MSTEAMS online lectures platform.
ORGANISATION OF	Teaching takes place in the lecture rooms of the Department of Economics. Lecture notes and reading material is distributed through

TEACHING	the course's e-class. The workload of the module is as follows:

Type~~Είδος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39
	Study at home	60
	Completion of assignment	60
	Preparation for the final assessment presentation & examination	10
	Final Examination	
	Total	169

Formatted Table

MODULE ASSESSMENT	The module is assessed via course assignment (presentation and examination) 100%

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	Reading and study material is primarily drawn from specialized papers and literature reviews published in peer-reviewed international academic journals such as *Defence and Peace Economics*; *Peace Economics, Peace Science and Public Policy*; *The Economics of Peace and Security Journal*. Additionally, reading material is drawn from books and textbooks such as: ○ Kevork, E. & C. Kollias (Eds) (2018). *Applied Economics Studies in Defence and Security*. University of Thessaly Publications (in Greek) ○ Caruso, R. & and A. Locatelli [Eds] (2014), *Understanding Terrorism. A Socio-Economic Perspective*, Emerald ○ M. Zouboulakis, M. & C. Kollias (2021), *National Defence and Sovereign Debt in Greece*. Gutenberg (in Greek) ○ Brauer, J. & H. van Tuyll (2008) *Castles, Battles, and Bombs*, University of Chicago Press

o Hartley, K. (2013) The Economics of Defence Policy: A New Perspective, Routledge
o Braddon, D. & K. Hartley (2011) [Eds], Handbook on the Economics of Conflict, Edward Elgar
o Economou, M. (2018), *Economy, War and Institutions,* Enalios Publications (in Greek)

INTERNATIONAL POLITICAL ECONOMY

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE	**SEMESTER OF STUDY**	A
MODULE TITLE	**International Political Economy**	

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**	
	3 HOURS	7	

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO

MODULE'S URL	https://applied.econ.uth.gr/courses/%ce%b4%ce%b9%ce%b5%ce%b8%ce%bd%ce%ae%cf%82-%cf%80%ce%bf%ce%bb%ce%b9%cf%84%ce%b9%ce%ba%ce%ae-%ce%bf%ce%b9%ce%ba%ce%bf%ce%bd%ce%bf%ce%bc%ce%af%ce%b1/

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected:
- To understand the complex relationships between economy and politics that determine developments in the international system and interstate relations.
- To know the historical process of development of the international economic and political system and the factors that have influenced globalization in various historical eras.
- To understand the different and competing theoretical approaches of international political economy such as realism and liberalism.
- To understand the potential long-term effects of current trends and changes in the international economic system.

General Competencies

The module probes into the complex interdisciplinary issues of international political economy by familiarizing students with fundamental concepts of the subject and the different levels of analysis of globalization, of the role of international organizations, the emergence of the modern global economic architecture and current trends and challenges that characterize the international system.

3.MODULE CONTENT

The course focuses on the analysis of the interconnection and interaction of economics and politics in the globalized international system. Through a historical lens, the dynamics and actors - state, non-state, international organizations - of the global political and economic scene that influence global political and economic developments and the governance of the international economy are approached in order to understand, on the one hand, the continuity and change that characterizes the international system and on the other hand the current trends recorded. Key axes of the analysis include the study of the evolution of economic institutions and their impact on the functioning of global economic systems and their historical evolution.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Lectures, group discussions, presentations
USE OF INFORMATION AND COMMUNICATION	The learning process is supported through the extensive use of the course's e-class platform where lecture notes and reading material are uploaded, emailing to communicate directly with students and the

TECHNOLOGIES	MSTEAMS online lectures platform.
ORGANISATION OF TEACHING	Teaching takes place in the lecture rooms of the Department of Economics. Lecture notes and reading material is distributed through the course's e-class. The workload of the module is as follows:

Type~~Είδ ος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	60
	Preparation for the assessment presentation & examination	10
	Final Examination	
	Total	189

Formatted Table

MODULE ASSESSMENT	The module is assessed via course assignment (presentation and examination) 100%

5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	Reading material is drawn from books and textbooks such as: o Kondis, A. & Ch. Tsardanides [Eds.] (2012) International Political Economy, Papazisis Publications (in Greek)\ o Siousiouras, P. & K. Chazakis [Eds.] (2009) Globalization, European Union and Greece, Poiotita Publications (in Greek) o Cohn, T. (2009) International Political Economy. Theory & Practice. Gutenberg Publications (in Greek) o Gilpin, R. (2004) Global Political Economy, Poiotita Publications (in Greek) Additionally, reading and study material is drawn from specialized papers and literature reviews published in peer-reviewed international

academic journals.

SPACE ECONOMICS

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE		**SEMESTER OF STUDY** A
MODULE TITLE	Space Economics	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

Following the successful completion of the module, students should be able to

-Analyze the significance of the economic concepts of production cost and demand for the space sector and industry

-Describe the impact of public policies on the space industry and exports

-Highlight the interconnections across space policies and defence and security policies through time

General Competencies

Following the successful completion of the module, students should have acquired the following competencies
Analytical methods of economic concepts of production cost, demand characteristics and market equilibrium
Analytical methods of business methods for risk mitigation and public procurement, as well as classification of technology readiness levels in space programs

3.MODULE CONTENT

The module is based on application methods of economic theory on the space sector with emphasis on concepts associated with economics of technology, security and development, as well as business administration. The module examines the dynamic interactions evolving around the expansion of humankind in space commons, but also on areas of innovation and technology growth. The methodological approach employs tools of analysis from microeconomic theory, public economics, as well as political economy with the course offering an inter-disciplinary approach with relevant elements from international space law, political science and business administration. The course provides for the interaction across economic applications with legal and political elements and organizations such as UNCLOS. In this context, the course further examines the role of the public sectors in an integrated approach from the high-level policies and collaborations, down to procurement and industrial policies. Finally, the module focuses also on the application of mechanisms towards incorporating innovation in business approaches.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support of learning approach through e-class, use of emails and MSTeams
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:

Type~~Είδ ος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39
	Study at home	80
	Completion of assignments	50
	Preperation for the final exam	39
	Final Examination	1
	Total	210

MODULE ASSESSMENT	Through assignments and presentations

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	-

RESEARCH METHODS SEMINAR II

1.GENERAL		
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	Research Methods Seminar II	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures and hands-on training	3 HOURS	2

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	Research Methods Seminar I
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_190/

2. LEARNING OUTCOMES
Learning Outcomes

This seminar provides a comprehensive introduction of statistics for business and economics and an intensive, hands-on introduction to the principles and practice of data visualization. As a result of taking this course, the students should be able to: 1. Apply and interpret descriptive statistics. 2. Formulate, identify and apply inferential statistics. 3. Analyse the association of variables using regression and ANOVA analyses. 4. Conduct empirical work using statistical software and interpret results 5. Take their data from Excel into visualization software, transform it to easy-to-understand dynamic graphics and interactively explore what-if scenarios.

General Competencies

This course provides the elementary foundations in statistics as well as the prerequisites for understanding the trends and challenges in data analysis and visualization.

The students will find the resources to learn the science behind data analysis, how businesses use data to their advantage. Utilizing the tools that support Business Intelligence can give organizations an edge, letting them make better, data-driven decisions.

3. MODULE CONTENT

Learning module 1: Statistical analyses using statistical package IBM SPSS Statistics

- Data import, data management
- Quantitative and qualitative variables, attributes, scales of measurement (nominal, ordinal, interval and ratio).
- Importing a survey questionnaire to SPSS
- Data Presentation: tabular and graphical. Statistical charts, crosstabulation and independence of data with special reference to attributes. Coding, missing values, conditional and arithmetic operations.
- Descriptive statistics: measures of central tendency, measures of dispersion.
- Inferential statistics. Basic statistical tests in SPSS. T-tests, analysis of variance (ANOVA), Chi-square test and contingency tables.
- Bivariate data: Definition, scatter diagram, simple, partial and multiple correlation, determine the strength of the correlation via the correlation coefficient. Simple and multiple linear regression. Multiple linear regression assumptions and diagnostics.

Learning module 2: Visual analytics

- Basic plotting and visualization. Statistical and specialty plots in Business Intelligence and Analytics Software Tableau.
- Best practices for creating different plot types, motion charts, interactive visualizations.
- Building, sharing and customizing automated reports including data, text and graphics.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	In situ and online lectures with hands-on computer training classes.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Teaching and learning process will be enhanced by eclass, email and MSTEAMS. Software licenses (IBM SPSS Statistics and Tableau latest versions) are offered to students at the beginning of the course. After completing the course, students have free one-year Tableau licenses through "Tableau for Students software licensing program".
ORGANISATION OF TEACHING	The hands-on training is conducted in the Computer Lab. Hands-on exercises and relevant materials (software user manuals, e-books, dictionary of statistical terms, white papers) will be provided for students to try out the applications, and to experiment with data analysis and interpretation and analytical reasoning in reports. More specifically, the workload of the module is analyzed as follows:

TypeΕΙΔΟΣ	DescriptionΠεριγραφή	WORKLOAD (HOURS)
	Lectures	39
	Study at home	10
	Completion of assignments	-
	Preparation for the final exam	9
	Final Examination	2
	Total	60

Formatted Table

MODULE ASSESSMENT	Online exam in the classroom
5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	- Aljandali A. (2016). Quantitative Analysis and IBM® SPSS®

Statistics. A Guide for Business and Finance. Springer Cham. Hardcover ISBN 978-3-319-45527-3 (e-book)

- Cleophas, Ton J., Zwinderman, Aeilko H. (2015). SPSS for Starters and 2nd Levelers. Springer International Publishing, ISBNs 978-3-31-920599-1, 978-3-31-920600-4. (e-book)
- Martin Lee Abbott (2016). Using Statistics in the Social and Health Sciences with SPSS® and Excel®. John Wiley & Sons, Inc. Print ISBN: 9781119121046 Online ISBN: 9781119121077
- Lind D. and Marchal W. and Wathen S. (2018). Statistical Techniques in Business and Economics, 17th Edition, McGraw Hill Education.

Selective Modules

LABOUR RELATIONS

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	B
MODULE TITLE	Labour Relations		
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**		**ECTS**
Lectures – Exercises – Case studies	3 HOURS		7
TYPE OF MODULE	OPTIONAL		
PREROQUISITE MODULES:	NO		

LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

Upon successful completion of the module, students should:
- Know and comprehend the basic theoretical and applied concepts of the labour relations scientific subject.
- Understand the dynamic and complex contemporary working environment that shapes modern labour relations.
- Be familiarized with the basic concepts regarding the personal and collective aspects of labour demand and labour supply.
- Be familiarized with the way labour market institutions operate and affect contemporary labour markets.
- Know the basic theoretical and empirical models and concepts in alternative dispute resolutions in the workplace.
- Critically assess policy implications as well as the basic fundamental characteristics of the native labour market.

General Competencies

The labour relations subject is multidisciplinary and multidimensional with many scientific fields contributing in its understanding. Such fields are Labour Economics, Human Resourse Management, Work Sociology and Labour Law. In general, the labour relations module focus on understanding the individual and collective dimensions and implications of the ways labour market demand and supply work. The students of the module will get familiarized with concepts and models from all the above academic fields with the aim to understand the ways labour relations formulate and operate in the contemporary, internationalized and competitive native labour markets. The basic competencies that the students should acquire from the lectures are:
- Search, use and synthesize data and information necessary for decision making in the labour relations field, with the use of the necessary technological tools.

- Decision making.
- Individual homework.
- Team homework.
- Demonstration of social, work and ethical responsibility with respect to gender issues.
- Development of free, creative and inferential thinking.

3.MODULE CONTENT

The basic aim of the module is to offer students with the knowledge on the ways contemporary labour relations are shaped between employers and employees, as well as to understand the way institutions mediate on these formulated labour relations.

Labour relations in modern labour markets are more individualized and less collective due to the ongoing decrease of trade unions' power, the increased labour market competitiveness and the national fundamental labour market characteristics.

Based on the above, in the lectures there will be an extensive discussion and presentation of several issues regarding labour relations, starting with the theoretical economics framework of the way modern labour markets operate and focusing on the role of each implicated actor has in the labour market (such as the employees, employers, the state and the labour unions).

The lectures will also focus on issues related to work negotiations, employee demands and the means used to success in these demands, such as strikes. Under this framework, special focus will be given to alternative dispute resolution concepts that are discussed in the relevant literature such as mediation and the like. There will also be studied relevant work-related case studies of good practices and intense labour disputes, that occurred at the national and the international level.

Certain aspects of contemporary challenges that shape modern labour relations will also be presented such as the role of technology, the globalization, the clients, labour market discrimination and alternative pay schemes.

Performance in the module will be assessed with individual and team homework and final written exams.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Use educational platforms for lectures such as MSTEAMS, email, eclass and the like.
ORGANISATION OF	The lectures will be held in the Economics Department, although the

TEACHING	students have the option to participate online. The study material will be distributed through the module's eclass page.

More specifically, the workload of the module is analyzed as follows:

~~Kind~~ Type	Description	WORKLOAD (HOURS)
	Lectures	39
	Study at home	70
	Completion of assignments	40
	Preperation for the final exam	60
	Final Examination	01
	Total	210

MODULE ASSESSMENT	Assessment:

5) Individual homework and/or team homework (40%),
6) Final written exam (60%)

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Boeri T., van Ours, J. (2021). The Economics of Imperfect Labour Markets. (eds.) Princeton University Press, pp. 736. - Dibben P., Gilton K., Skillman G. (2011). Employment Relations. CIPD Publications, pp. 368. - Jacobsen J. P., Skillman G. L. (2004). Labor Markets and Employment Relationships: A Comprehensive Approach. (eds.) Blackwell Publishing, USA, pp. 582. - Kearney R. C. (2011). Labour Relations in the Public Sector. (eds.) Taylor & Francis, 4th ed., pp.406.

MEASUREMENT OF PRODUCTIVITY AND EFFICIENCY

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE		**SEMESTER OF STUDY**	B
MODULE TITLE	MEASUREMENT OF PRODUCTIVITY AND EFFICIENCY		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures - Exercises - Actions	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES
Learning Outcomes

The course aims to provide students with the tools of applied economic analysis to be able to answer the following questions:

• How can I determine the production function of an economic unit?

• How can I measure the technical efficiency of organizations and other economic units?

• How can I measure the productivity of organizations and other economic units?

• How can I identify and propose optimization goals for the production process of organizations and other economic units?

This course is designed to equip students with the knowledge and analytical skills necessary to address these questions in the context of economic analysis and optimization.

General Competencies

The student will have the ability to measure productivity and efficiency using the Data Envelopment Analysis (DEA) method. They will also be able to recognize, understand, and create Malmquist productivity indices and apply the measurement of technical efficiency to organizations and economic units such as banks, hotels, hospitals, and others.

This indicates that the student will acquire skills related to advanced economic analysis techniques, particularly in the context of productivity and efficiency measurement in various types of organizations and economic entities.

3.MODULE CONTENT

The course consists of lectures with a particular emphasis on applied specialized topics in the economics of production. The central aim of the course is to understand fundamental concepts of economic production, with an emphasis on learning and applying methodologies for measuring productivity and efficiency in economic units and organizations.

• Basic introductory concepts related to technology and scale efficiency.

• Profit maximization theory and scale efficiency.

• Production theory and production frontier analysis.

• Parametric and non-parametric approaches to measuring production efficiency.

• Measurement of productivity using the Malmquist index.

This course covers a range of topics related to the economics of production, focusing on practical applications and measurement methodologies for productivity and efficiency in various economic units and organizations.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	in-person and remote activities or learning (hybrid)
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	"Supporting the learning process through the e-class electronic platform. Using email and Microsoft Teams." This statement indicates the use of electronic platforms and communication tools like email and Microsoft Teams to facilitate and enhance the learning process.
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows: Formatted Table<table><tr><th>TypeΕίδ ος</th><th>DescriptionΠεριγραφή</th><th>WORKLOAD (HOURS)</th></tr><tr><td></td><td>Lectures</td><td>39</td></tr><tr><td></td><td>Study at home</td><td>80</td></tr><tr><td></td><td>Preperation for the final exam</td><td>90</td></tr><tr><td></td><td>Final Examination</td><td>1</td></tr><tr><td></td><td>Total</td><td>210</td></tr></table>
MODULE ASSESSMENT	100% Individual Presentation of a Scientific Article.

347

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Coelli, TJ, Rao, D.S.P., O'Donnell CJ, Battese GE. (2005). An introduction to efficiency and productivity analysis, Second edition, Springer. - Ray, S. C. (2004). Data envelopment analysis: theory and techniques for economics and operations research. Cambridge university press - Varian R. H. (1992). Microeconomic Analysis, Third edition, Norton.

PROJECT MANAGEMENT

1.GENERAL

SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS	
DEPARTMENT	DEPARTMENT OF ECONOMICS	
LEVEL OF STUDIES	POSTGRADUATE LEVEL	
MODULE CODE		SEMESTER OF STUDY	B
MODULE TITLE	Project Management	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures – exercises - activities	3 HOURS	7

TYPE OF MODULE	ELECTIVE
PROREQUISITE MODULES:	NO

LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_114/

2. LEARNING OUTCOMES

Learning Outcomes

On successful completion of the course students should be able to:

- Identify, develop, classify and plan the desired change that will be carried out by the implementation of a project or program.
- Quote, summarize and explain the concepts and the necessity of integrated management of all project's phases.
- Use, resolve, combine and assess the importance of key parameters of each project.
- Define and describe the limitations that each parameter has on the successful implementation of the project.
- Obtain the composition of these parameters for the development of a management plan for these parameters in each phase of the project's life cycle.
- Describe and develop the appropriate project selection method for a portfolio and/or project program.
- Adequately organize, analyze, validate and assess project and program progress.

General Competencies

The course aims to develop and cultivate the following general abilities of the students:

- Search, analysis and synthesis of data and information, using the necessary technologies
- Autonomous work
- Teamwork
- Work in an interdisciplinary scientific environment

- Collaboration skills
- Communication skills

3.MODULE CONTENT

Introduction to Project Management - Historical references, concepts and definitions for project, program and portfolio - Why there are organizations that apply management by project - How are they different from other organizations - How do they work and what is their value - Organizations that support project management in the world and in Greece

Project Management Standards (PMI – IPMA – PM^2)

Understanding the problematic of a Project - Defining Success and Failure in a Project – Project's Lifecycle - The Pillars of Project Management [Governance, Lifecycle, Processes, Techniques and Tools]

Stakeholder management - The Logical Framework Approach (LFA) - Project integration and Scope management

From design to scheduling (Building AoN - AoA project networks, Critical Path Method, PERT/CPM, time-cost trade-off in projects)

Resource requirements, resource availability, Resource Management, the Resource Constrained Project Scheduling Problem, resource balancing in the schedule.

Monitoring of project progress (monitoring), identification of risks (risk management), assessment of the progress of the financial and physical object of the project (Earned Value Management), Schedule Risk Analysis

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	In class
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Learning process is supported through the e-class online platform. Use of email.
ORGANISATION OF TEACHING	The delivery of the course takes place in the halls of the Department of Economic Sciences. Informational material is distributed via the course page in the e-class. More specifically, the workload of the course is analyzed as follows: (indicative)

Description	WORKLOAD (HOURS)
Lectures	39
Study at home	80
Completion of assignments	50
Preparation for the final exam	39
Final Examination	2
Total	210

MODULE ASSESSMENT	There are two (2) ways for the final mark:
	Options between A and obligatory B and C.
	A) One (1) group assignment (up to two people that counts for 50% of the total mark) or alternatively a final exam with development, calculation and multiple-choice questions (also counts for 50% of the total mark)
	B) Two mid-term exams (half an hour) with calculation questions (counts for 15% each, a total of 30%)
	C) Four short and one long-term group activities in-class tests (cumulative counts for 20% of the total score)
	The rating scale is: 1-10.

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Pinedo, M.L. (2008), Scheduling: Theory, Algorithms and Systems (3rd edition), Springer Science+Business Media, LLC - Rayner P. and Reiss G. (2012), Portfolio and Programme Management Demystified, Routledge ,second edition - Renz, P.S. (2007), Project Governance, Physica-Verlag

	Heidelberg
	- Schwindt, C. (2005), Resource Allocation in Project Management, Springer-Verlag Berlin Heidelberg
	- Tonchia, S. (2008), Industrial Project Management: Planning, Design and Construction, Springer-Verlag Berlin Heidelberg

3rd Semester

MODULE	TYPE	ECTS
DISSERTATION	COMPULSORY	30
Alternative instead dissertation all the following modules		
Financial Management	COMPULSORY	7
Technology Strategy	COMPULSORY	7
Data Analytics	COMPULSORY	7
Applied Economics Analysis	COMPULSORY	7
Research Methodology Seminar III	COMPULSORY	2

DISSERTATION

1.GENERAL		
MODULE TITLE	DISSERTATION	
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**
		30
TYPE OF MODULE	SELECTIVE	
PROREQUISITE MODULES::	MODULES OF 1ST AND 2ND SEMESTER	
LANGUAGE OF TEACHING AND TESTING:	Greek, English	
THE MODULE IS OFFERED TO ERASMUS STUDENTS	No	
MODULE'S URL	eclass.uth.gr/eclass/courses	

2. LEARNING OUTCOMES

The main learning objective to be achieved during the completion of the master's thesis is for the student to develop the necessary knowledge background related to the critical understanding of the subject of the master's thesis, as well as the systematic application of research methodologies and techniques. Specifically, upon completion of the master's thesis, the student should demonstrate that:

• Understands, critically evaluates, and applies techniques for defining and developing a research topic that constitutes a relevant research problem in the field of Applied Economics.

• Selects and formulates specific research objectives and problems that exhibit (to some extent at a master's level) scientific originality and practical relevance.

• Understands and assesses the relationships between research objectives-problems, scientific literature, research methodologies, data collection and analysis techniques, drawing conclusions, and ultimately methods for making managerial decisions.

• Applies research search processes and engages in the critical review of scientific literature relevant to the research topic.

• Conducts research and formulates conclusions that are understandable and lead to interesting results.

• Understands the differences between quantitative research and qualitative research strategies and applies them either independently or in combination, depending on the specific requirements of the research.

• Understands the advantages and disadvantages of research techniques, systematically applies research techniques, and documents the choices made.

• Relies on primary and/or secondary data, which are evaluated for sufficiency, reliability, and validity.

• Formulates understandable and useful conclusions that demonstrate knowledge of the subject and the ability to critically assess other relevant published research results.

• Understands and formulates limitations and weaknesses of the research work.

• Identifies possible directions for future research in the specific area and in accordance with the initial research objectives, and finally

• Broadens their overall knowledge background to enhance further research and professional pursuits.

General Competencies

The postgraduate thesis aims for the student to develop, through a primarily personal research process and under the guidance of the supervisor, a thesis on the chosen subject-object proposed following a relevant proposal. The aforementioned thesis should present:

• A clearly defined contribution to the field of Applied Economics, either through the conduct of original research or through the examination and application of relevant theories and methodologies.

• A well-documented research methodology and the systematic application and utilization of appropriate techniques for data collection, analysis, and processing.

• Comprehensive knowledge of the research subject of the thesis, including the ability to critically evaluate relevant literature.

3. MODULE CONTENT

The research objectives and the content of each postgraduate thesis (Master's thesis) should be relevant to the academic subject of the Master's program (MSc) and should fall within a specific academic field or areas of knowledge.

The research methods involve techniques for collecting and processing reliable data, as well as their documentation through scientific methods (e.g., field research, literature review, statistical analysis, etc.).

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	During the semester in which the postgraduate thesis (MSc thesis) is being completed, the supervising Professor supports the student by providing, in the best guiding manner, the scientific knowledge and expertise in the specific subject of the thesis. This support aims to facilitate the student's gradual progress in writing the thesis.
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Supporting the Learning Process through the e-class Electronic Platform

ORGANISATION OF TEACHING	More specifically, the workload of the course is analyzed as follows:

Type	Description	Workload(hours)
Lectures	This concerns the lectures and presentations that will take place in the Research Methodology Seminar I & II.	2*20=40
Preparation of an MSc thesis proposal	Involves composing the proposal for the MSc thesis.	20
Preparation of Dissertation	It concerns the time required for conducting case studies and implementing exercises, as previously mentioned (Assessment Method).	536
Final Examination	It concerns the duration of the final examination	1
Participation in other activities	Meetings with the Professor for Progress Feedback	3
	Σύνολο	**600**

MODULE ASSESSMENT	The MSc thesis is presented for public defense by the student. The thesis is evaluated by the supervisor and two assessors, who must collectively agree on the final grade for the postgraduate thesis, which may also be the average of the three grades. The evaluation criteria for the thesis include: • The significance of the contribution of the specific research to the academic subject of the MSc program. • Clear definition and significance of the research objectives.

• Understanding of the research subject and the ability to critically evaluate and utilize relevant literature.

• Understanding of research methodology, sufficiency of the research methodology, and systematic use of appropriate research techniques.

• Completion of the research and the significance of the results and conclusions.

• Writing style of the thesis and the technical presentation quality of the work, which should conform to citation style standards.

• Presentation and public defense of the thesis.

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:

- Calabrese R. L. (2012), *Getting It Right: The Essential Elements of a Dissertation, 2nd Edition, Rowman & Littlefield Education.*

- Cohen L., Manion L., Morrison K. (2007), *Research Methods in Education, 6th Edition, London & New York, Routledge.*

- Murray R. (2006), *How to Write a Thesis, 2nd Edition, Berkshire, UK, Open University Press.*

- Orna E. & Stevens G. (2009), *Managing Information for Research: Practical help in researching, writing and designing dissertations, 2nd Edition, Buckingham, UK, Open University Press.*

- Saunders M., Thornhill M., Lewis, P. (2012), *Research Methods for Business Students, 6th Edition, Harlow, Essex, UK, Pearson.*

- Yin R. K. (1994), *Case Study Research Design and Methods, 2nd Edition, London & New Delhi, Sage.*

- Bell J. (2007), *Πως να συντάξετε μια Επιστημονική Εργασία: Οδηγός Ερευνητικής Μεθοδολογίας, Αθήνα, Εκδόσεις Μεταίχμιο.*

- Eco U. (2001), *Πως γίνεται μια Διπλωματική Εργασία, Αθήνα, Εκδόσεις Νήσος.*

- Ζαφειρόπουλος Κ. (2015), *Πως γίνεται μια Επιστημονική Εργασία: Επιστημονική Έρευνα και Συγγραφή Εργασιών, Αθήνα, Εκδόσεις Κριτική.*

- *Θεοφιλίδης Χ. (2005), Η Συγγραφή Επιστημονικής Εργασίας: Από τη Θεωρία στην Πράξη, Αθήνα, Εκδόσεις Τυπωθήτω-Δαρδανός.*

- *Μπέλλας Θ. (1998), Δομή και Γραφή της Επιστημονικής Εργασίας, Αθήνα, Εκδόσεις Ελληνικά Γράμματα.*

- *Μπουρλιάσκος Β. Γ. (2010), Πως γράφεται μια Επιστημονική Εργασία: Πρακτικός Οδηγός, Συγγραφή Επιστημονικής Εργασίας και Βιβλιογραφική Έρευνα, Αθήνα, Εκδόσεις Διόνικος.*

- *Τοκμακίδης Σ. Π. (2008), Οδηγός για τη Συγγραφή Διπλωματικών Εργασιών, Αθήνα, Ιατρικές Εκδόσεις Π. Χ. Πασχαλίδης.*

Alternatively, instead of dissertation the following four modules and the Seminar

FINANCIAL MANAGEMENT

1. GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE	(ECON_P_148)	**SEMESTER OF STUDY**	A
MODULE TITLE	FINANCIAL MANAGEMENT		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures - Exercises	3 hours	7

TYPE OF MODULE	COMPULSORY

PREREQUISITE MODULES:	No
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	No
MODULE'S URL	eclass.uth.gr/

2. LEARNING OUTCOMES

Learning Outcomes

The course of Financial Management is connected with the courses of Accounting, Finance, Investment Valuation, and Portfolio Management and is influential towards but also is influenced by these courses but in no case it is identical with them. On the contrary, Financial Management creatively adds to these fields.

General Competencies

By fully attending this course, students will have created a clear, complete, and multi-prismatic perspective of the underlying theory and economic implications will be familiarized with the methods and the tools necessary to assess and critically evaluate investment plans, studying financial components scientifically, and reaching safe and accurate conclusions about the viability and the financial health of firms. They will have a clear perspective about the differences between fundamental and market evaluation and will be able to efficiently avoid the deviations from objective estimations that stem from the bias and subjectivity inherent in the majority of investors.

They will be able to judge whether it would be better to finance a specific investment by lending or by issuing new shares. They will also be able to detect and measure the most important determinants for safely estimating the value, the profitability, and the perspectives of a firm to grow. Moreover, they will become fluent in using the appropriate

tools for reducing the risk emanating from the existing capital structure but also from default risk, exchange rate risk, etc. while also will develop capacities to better allocate the existing resources in order to achieve the best risk-adjusted return by taking into consideration the special features of the growth potentials as well as the possibilities to adjust prices to news regarding the specific investment.

3. MODULE CONTENT

This course primarily focuses on investment decision criteria based on the Net Present Value, the Future Value, and the discount rate. Moreover, it offers insights concerning how bonds function by focusing on the market value, the coupon rate, and the yield to maturity. Furthermore, it compares financing through lending with financing through issuing new shares and offers in depth analysis of the advantages and disadvantages of each decision concerning this dilemma. The percentage of re-capitalization, the profit holdings, the perspectives of growth, and the market share constitute the axis of this analysis. The basic financial ratios are analyzed that reflect the financial condition of the firm. Moreover, the role of the Assets, the Liabilities, and the Equity are analyzed, which are crucial for fighting deficits in balance sheets.

The second part of this course focuses on the concepts of performance and risk which are applied in alternative investments and constitute the basis of fundamental and technical analysis and for estimating the optimal weights of a range of alternative financial assets. Furthermore, the Fama-French 5-factor model is applied and the market efficiency theory is analyzed as well as the possibilities of viability and profitability that it can offer.

The third part of this course focuses on risk management (credit risk, exchange risk, country risk) and is based on the impacts of risk premia on the success of investments and on the difficulties they cause to the efficacy of Financial Management. Emphasis is given on the derivatives market that is employed for hedging against risk stemming from the unpredictability of market prices as these instruments are also adopted for speculative purposes.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	In-person and online
USE OF INFORMATION AND COMMUNICATION	Teaching is supported by the e-class platform. Use of email, MSTEAMS

TECHNOLOGIES	
ORGANISATION OF TEACHING	Teaching takes place in the classes of the Department of Economics. Informative material is distributed through the course's e-class webpage. ……………………………………………………………………………………………… … More specifically, the workload can be divided as indicated below:

Type	Description	WORKLOAD (HOURS)
Lectures		39
Study at home		68
Completion of assignments		30
Preparation for the final exam		70
Final Examination		3
Total		210

MODULE ASSESSMENT	Final examination (written) (70%) and individually-prepared writing task of the semester 4.000 words (30%)

5. RECOMMENDED BIBLIOGRAGHY	
Suggested Bibliography:	• Principles of Corporate Finance, Brealey, Myers, and Allen, Utopia editions, 2nd edition • Papadamou S, and Siriopoulos C., 2015. Principles of Investment Valuation: Financial and Socio-economic

perspective. [e-book.] Athens: Association of Greek Academic Libraries. Available at: http://hdl.handle.net/11419/4365

TECHNOLOGY STRATEGY

1.GENERAL			
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS		
DEPARTMENT	DEPARTMENT OF ECONOMICS		
LEVEL OF STUDIES	POSTGRADUATE LEVEL		
MODULE CODE	**MA_41**	**SEMESTER OF STUDY**	**A**
MODULE TITLE	**Technology Strategy**		
INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**ECTS**	
Lectures – Course work	3 HOURS	7	
TYPE OF MODULE	COMPULSORY		
PROREQUISITE MODULES:	NO		
LANGUAGE OF TEACHING AND TESTING:	GREEK		
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO		
MODULE'S URL	eclass.uth.gr		
2. LEARNING OUTCOMES			

Learning Outcomes

Upon successful completion of the course, students will be able to understand the developments in the modern technology environment and plan appropriate policies and practices for their effective management. Students will be able to:

- Understand the interaction between economics and technology
- Connect theoretical knowledge with technological and business reality
- Recognize the primary importance of innovation and organizational learning
- Understand the world of intellectual property (IP)
- Understand the basic functions of Technology Strategy
- Implement individual tools, policies and practices of Technology Strategy

General Competencies

- Understanding how the theories of Economics of Technology and Technology Strategy apply to the modern economic environment.
- Solving practical problems encountered in the technologically fluid business environment.
- Planning of Technology Strategy policies and practices
- Improving the ability of students to communicate, collaborate and lead on issues of technology and innovation.
- Teamwork
- Perception of the innovative capabilities of the business

3.MODULE CONTENT

Technical change and economic development (Economics of knowledge and innovation: key concepts)

- Innovation and Technical Change
- Industrial and technological revolutions, techno-economic paradigms
- Knowledge, technology, innovation and entrepreneurship
- Diffusion of innovation and path dependence
- Disruptive innovation, Socio-technical Systems and Socio-technical Transition

Economics of technology

- Business knowledge creation process
- Path Dependence and Absorptive Capacity

Technology Strategy

- Types of Technology Strategy
- Levels of Technology Strategy Development
- Tools and Methods for Developing Innovative Skills
- Architectural innovation
- Technology platforms and ecosystem strategies

- • Modularity
- • Product platforms
- • Reasons for failure of large companies
- • Technology alliance strategies

Technology **and Business strategy**

- • Fundamental skills
- • Leveraging innovation, complementary assets, and appropriability regimes
- • Co-opetitive games and platform strategy

Intellectual Property and exploitation of innovation

The framework for the study and analysis of intellectual property

- • Intangible assets:
  - o Intangible assets investment
- • Intellectual Property Rights (IPRs):
  - o Intellectual Property Protection
  - o Patents
- • IP institutions and mechanisms (OBI, EPO, WIPO, etc.)
- • Intellectual Property Management – Strategies

Technology **Strategy Planning**

- • Technology Foresight
- • Technology Monitoring
- • Scenario development and analysis
- • Technology Road-Map (TRM)

4. TEACHING AND LEARNING METHODS EVALUATION	
TEACHING METHOD	Mixed/Hybrid
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Learning process support through the e-class online platform. Use email, MS TEAMS.
ORGANISATION OF TEACHING	The course delivery takes place in the rooms of the Department of Economics. Informational material is distributed through the course page in the e-class platform and the course channel in MS Teams. More specifically, the workload of the module is analyzed as follows:

Type~~Είδ~~ ~~ος~~	Description~~Περιγραφή~~	WORKLOAD (HOURS)
	Lectures	39

Formatted Table

Home study	78
Completion of assignments	50
Preparation for final exam	40
Final Examination	3
Total	210

MODULE ASSESSMENT	In-course assignments 30% Final course essay 70%

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	Bessant J και Tidd J. (2017) Καινοτομία και Επιχειρηματικότητα, 3η Αγγλική Έκδοση, Εκδόσεις Τζιόλα (in Greek) Schilling, M. A. (2017) Η Στρατηγική Διοίκηση της Τεχνολογικής Καινοτομίας, 4η Αγγλική Έκδοση, Broken Hil (in Greek)l Tidd J. and Bessant J. (2018) Στρατηγική Διοίκηση Καινοτομίας, Broken Hill (in Greek) White M. and Bruton G. (2010) Η στρατηγική διαχείριση της τεχνολογίας και της καινοτομίας. Κριτική (in Greek) Σπαής Γ. (2007) Εισαγωγή στη Διαχείριση Τεχνολογικών Καινοτομιών, Κριτική (in Greek) Dodgson M., Gann D.M., and Salter A. (2008) The Management of Technological Innovation, Oxford University Press Dodgson M., Gann D., and Salter A. (2005) Think, Play, Do: Innovation, Technology, and Organization: Technology, Innovation, and Organization, Oxford University Press Nonaka I. and Takeuchi H. (1995) The Knowledge-Creating Company: How Japanese Companies Create the Dynamics of Innovation, Oxford University Press

DATA ANALYTICS

1.GENERAL	
SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS
DEPARTMENT	DEPARTMENT OF ECONOMICS
LEVEL OF STUDIES	POSTGRADUATE LEVEL

MODULE CODE		SEMESTER OF STUDY	A

MODULE TITLE	Data Analytics

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures - exercises - practices	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	COMPUTER SCIENCE II
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

After the successful completion of the course, the student should be able to:

• Understand the basic algorithms used in Data Analytics.

• Utilize the features of the Python programming language and the packages of the R statistical programming language for data analysis.

• Business analytics applications.

• Comprehend the fundamental methods of handling Big Data.

General Competencies

The course "Data Analytics" aims to familiarize students with modern technologies and available tools for data management, processing, and analysis. Emphasis is placed on business applications of Data Analytics. The focus of the course is twofold. Students are taught on a theoretical level the basic algorithms of Data Analytics, while simultaneously using them in various examples, developing applications in Python and R.

3.MODULE CONTENT

Introduction to Data Analytics

Applications of Data Analytics in Economics and Finance

Predictive Modeling: Correlation and Segmentation.

Correlation Analysis and Regression Analysis (predictive analytics)

Model Adaptation to Data. The problem of Overfitting and techniques to address it.

Similarity, Neighbors, and Clusters.

Visualization of Results.

Artificial Intelligence and Machine Learning.

Big Data and their handling tools.

Practical Examples in Python and R.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Onsite / Remote / Hybrid
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support of the learning process through the eClass platform the unified e-learning system of the University of Thessaly which is supported by the Library and Information Centre and MSTEAMS platform for education.
ORGANISATION OF TEACHING	More specifically, the workload of the module is analyzed as follows:

TypeΕίδος	DescriptionΠεριγραφή	WORKLOAD (HOURS)

Lectures		39
Study at home		80
Completion of assignments		50
Preparation for the final exam		39
Final Examination		2
Total		210

MODULE ASSESSMENT	Evaluation Method: - Individual Programming Exercises: 30% - Written Examination: 70%

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Foster Provost and Tom Fawcett, "Data Science for Business", Edited by Vasilis Verykios, Klidarithmos Publications. - Paul Deitel and Harvey Deitel, "Introduction to Python for Computer Science and Data", M. Gyuras Publishing. - Dimitrios Karolidis, "Learn Python Easily", Avakas Publishing. - Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani (2021). "An Introduction to Statistical Learning with Applications in R". ISBN: 978-1-0716-1417-4 Springer. (Free e-book, Access provided by HEAL-Link Greece - University of Thessaly) - Karagrigoriou, A., & Kalligeris, E. (2023). Linear Models and Design & Analysis of Experiments with applications in R and Minitab. Kallipos, Open Academic Editions. https://dx.doi.org/10.57713/kallipos-70

APPLIED ECONOMIC ANALYSIS

1.GENERAL

SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS
DEPARTMENT	DEPARTMENT OF ECONOMICS
LEVEL OF STUDIES	POSTGRADUATE LEVEL

MODULE CODE		**SEMESTER OF STUDY**	A
MODULE TITLE	APPLIED ECONOMIC ANALYSIS		

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
LECTURES	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	https://eclass.uth.gr/courses/ECON_P_187/

2. LEARNING OUTCOMES

Learning Outcomes

Upon completion of the course, participants are expected to:
- o understand sufficiently the basic economic concepts concerning the markets, the sectors of government's policy in the economy, and also fundamentals of the money markets and international transactions
- o distinguish and apprehend the interdependence between internal and external factors of

markets

General Competencies

The course aims to introduce in a critical way the basics of contemporary Economic Analysis. Emphasis is given on the fundamental problems of the operation of the markets on the micro and the macro level. The course demands little or no previous knowledge of economics. The course focuses on the conceptual aspects of economic reasoning and not on the theoretical or mathematical demonstrations of economic theorems, in a way to make students able to understand the major aspects of the functioning of markets, their failures and remedies.

3.MODULE CONTENT

- M) MICROECONOMIC THEORY: Demand and supply theory, Cost and production analysis, Forms of competition, Market Failures, Theory and Evolution of Firms, Transaction Costs Theory.
- N) FUNDAMENTAL MACROECONOMIC INDICATORS- BALANCE OF TRADE AND CURRENT TRADE BALANCE
- O) MONETARY THEORY AND POLICY

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Mixed
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	The learning process is supported through the course's e-class online platform, the use of the official email of the department to communicate with students, and MSTEAMS
ORGANISATION OF TEACHING	The lectures of the course takes place in the amphitheaters of the Department of Economics. Informational and learning material is distributed through the e-class platform. More specifically, the workload of the module is analyzed as follows:

Type	Description	WORKLOAD (HOURS)
	Lectures	39

	Study at home	60
	Completion of assignments	40+2
	Preperation for the final exam	36
	Final Examination	3
	Total	180

MODULE ASSESSMENT	Two compulsory tests (40%), Participation (10%), final exam (50%)

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	o Βαρουφάκης, Γ. (2007), Πολιτική Οικονομία, Αθήνα, Gutenberg. o Bowles S, R. Edwards, & F. Roosevelt, (2005), Κατανοώντας τον Καπιταλισμό, ελλ. μτφ Αθήνα, Gutenberg 2014, Επιμέλεια μτφ Μ. Ζουμπουλάκης. o Krugman, P. & R. Robin (2014), Μακροοικονομική σε διδακτικές ενότητες, ελλ. μτφ Αθήνα, Gutenberg 2018. o Nicholson, W., (2005), Μικροοικονομική Θεωρία, ελλ. μτφ. Εκδ. Κριτική, 2008. o Mankiw, G., Taylor, M.P and Ashwin, A. (2012) Οικονομική των επιχειρήσεων, ελλ. μτφ. Εκδ. Κριτική, 2018

RESEARCH METHODOLOGY SEMINAR III

1.GENERAL

SCHOOL	SCHOOL OF ECONOMICS AND BUSINESS
DEPARTMENT	DEPARTMENT OF ECONOMICS
LEVEL OF STUDIES	POSTGRADUATE LEVEL

MODULE CODE		SEMESTER OF STUDY	C
MODULE TITLE		Research Methodology III	

INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS	ECTS
Lectures - Exercises – Practices- Use of EXCEL and R programming language	3 HOURS	7

TYPE OF MODULE	COMPULSORY
PROREQUISITE MODULES:	NO
LANGUAGE OF TEACHING AND TESTING:	GREEK
THE MODULE IS OFFERED TO ERASMUS STUDENTS	NO
MODULE'S URL	eclass.uth.gr

2. LEARNING OUTCOMES

Learning Outcomes

The teaching of the course " Research Methodology III " aims to:

• Familiarize students with the necessary knowledge and techniques that enable researchers of economic phenomena to quantify and estimate economic relationships governing the operation of economic units and markets using statistical methods.

• Equip students with the necessary tools for verifying and evaluating econometric models and conducting forecasts.

• Introduce students to the analysis of time series data.

By the end of the course, students should be able to:

• Specialize and select an econometric model.

• Estimate a classic linear model.

• Test, examine, and evaluate an econometric model.

• Evaluate and address issues related to violations of the assumptions of a model.

• Design, estimate, and test time series models and perform forecasts.

• Apply the estimated models using the R programming language.

General Competencies

- Data and information search, analysis, and synthesis using the necessary technologies.
- Adaptation to new situations.
- Decision-making.
- Autonomous work.
- Teamwork.
- Work in an international environment.
- Work in an interdisciplinary environment.
- Project design and management.
- Generation of new research ideas.

3.MODULE CONTENT

- Simple and multiple linear regression (OLS): Assumptions, sample estimation, hypothesis testing, significance tests for variables and linear constraints, simple and adjusted coefficient of determination, properties of estimators.
- Violations of assumptions: Autocorrelation, heteroscedasticity, statistical tests (White, Durbin-Watson, Breusch-Godfrey), GLS and FGLS estimators, correlation of explanatory variables and error term, multicollinearity, misspecification.
- Models of limited dependent variables.
- Vector Autoregressive (VAR) models and causality tests.
- Non-stationarity and unit root tests.
- Cointegration and error correction models. Identification in standard and cointegrated

systems.
- Time-varying coefficient models.
- Traditional panel data models.
- Dynamic heterogenous panels.
- Non-stationary panels.

4. TEACHING AND LEARNING METHODS EVALUATION

TEACHING METHOD	Hybrid
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Support for the learning process is provided through the use of: (a) The e-class electronic platform, institutional email, and the online course on the MS-TEAMS platform. (b) The R programming language.
ORGANISATION OF TEACHING	The course is delivered within the classrooms of the Department of Economic Sciences, utilizing Microsoft Office 365 tools (Word, Excel, PowerPoint) and the R programming language. Lecture slides and supporting materials for each session are already posted on the e-class electronic platform for students to access during the lecture. The existing technological equipment in the classrooms also allows the use of an electronic whiteboard via a WACOM device, which enables writing on presentations and texts with the ability to save enriched texts and presentations. Enriched texts containing comments on the lectures, as well as solutions to exercises and problems, are also uploaded to the e-class of the course after each lecture. Files containing additional exercises and problems for practice and understanding of the course material are provided for each topic. Solutions and comments for these problems are given either during the lectures or during specified office hours announced by the instructor (in special cases, even through email using students' institutional accounts). More specifically, the workload of the module is analyzed as follows:

TypeΕίδ ος	DescriptionΠεριγραφή	WORKLOAD (HOURS)

Formatted Table

Lectures	39
Study at home	80
Completion of assignments	50
Preperation for the final exam	39
Final Examination	2
Total	210

MODULE ASSESSMENT	EXAMINATION PERIOD A' SEMESTER Individual/Group Assignment: 30% Written Exam: 70% REPEAT EXAMINATION Written Exam: 100%

5. RECOMMENDED BIBLIOGRAGHY

Suggested Bibliography:	- Greene, W. H. (2003). Econometric analysis. Pearson Education India. - Wooldridge, J. M. (2015). Introductory econometrics: A modern approach. Cengage learning. - Gujarati, D. N. (2022). Basic econometrics. Prentice Hall. - Stock, J. H., & Watson, M. W. (2015). Introduction to econometrics 3rd ed. - Baltagi, B. H., (2008). Econometric analysis of panel data (Vol. 4). Chichester: Wiley. - Wooldridge, J. M. (2010). Econometric analysis of cross section and panel data. MIT press.

II.4 Brief CVs of Academic Staff of the department of Economics

.

More information about the academic profiles of the teaching staff at TOE can be found on the website: http://www.econ.uth.gr/Prosopiko.html"

II.5 STUDENT STATUS AND BENEFITS

Obtaining student status is a privilege that comes with enrolling in the postgraduate program, but it's important to note that this status is automatically forfeited upon the successful completion of the Master's degree.

SPECIAL ACADEMIC ID For the convenience of postgraduate students (both MSc and PhD candidates), the Department's Secretariat issues a Academic ID Pass. This pass grants them access to public transportation at reduced fares, making commuting more affordable.

HEALTHCARE SUPPORT MSc Postgraduate students, they are not already covered by any insurance scheme, are eligible for complimentary healthcare services. This comprehensive healthcare package includes medical consultations, hospitalization, and access to necessary medications.

For further details and inquiries, please feel free to reach out to the Student Welfare Office of the University of Thessaly, located at Argonauton and Filellinon, 382 21 Volos. You can contact them by phone at +30 2421074506 or +30 2421074621, and by fax at +30 2421074561."

Formatted: English (United States)

The Secretariat of the M.Sc. Program

The Secretariat of the M.Sc. Program is located on the ground floor of the Mattsaggou Building at 78, 28th Octovriou Street. The responsibilities of the Secretariat include, among others, student enrollments, record-keeping, and protocol number issuance, minute-taking during the meetings of the M.Sc. Committees, issuing enrollment and grade certificates, recording student grades, scheduling courses and seminars for the M.Sc. program, and more. Ms. Maria Arsenopoulou (Tel. +30 24210 74700) is responsible for monitoring the program's progress, supporting educational material development, maintaining records, and assisting in educational activities related to the M.Sc. programs of the Department."

II.6 EXAMINATION REGULATIONS

1. Introduction

    This regulation outlines the responsibilities and obligations of instructors, students, and proctors in the conduct of examinations.

2. Examination Preparation

2.1 The scheduling of examination periods is determined by the Senate. Any modifications, which are made only in cases of necessity, require approval from the Department Assembly.

2.2 The examination schedule is prepared by the Secretariat of the M.Sc. Department in consultation with the instructors.

2.3 In exceptional circumstances where the responsible instructor is absent, an examination for a course can be conducted only if authorized by the Director of the M.Sc. program and another department faculty member is appointed as the responsible proctor.

2.4 The detailed examination schedule for the winter and spring semesters is announced at least fifteen (15) days before the start of the examination periods.

2.5 The detailed schedule for the September examination period is announced at the end of the spring semester.

3. Commencement of Examinations

3.1 The responsible examiner for each course must: A. Collect the examination-related materials, including examination booklets, the list of examinees, and the grading sheet, from the Secretariat in a timely manner for the respective examination room. B. Organize and arrange the seating of examinees in the examination rooms. C. Be present in the examination room for the entire duration of the examination.

3.2 Prior to the distribution of examination papers, examinees must remove all unauthorized aids, except those explicitly allowed by the detailed examination schedule.

3.3 Examination papers are in printed form and must: A. Be reproduced and provided to the Secretariat by the responsible proctor in sufficient quantities to ensure distribution to all examinees. B. Include on the header of the first page the course details, the name of the responsible proctor, the examination period, the examination date, and the duration of the examination."

Conduct of Examinations

4.1 The format of examinations is determined by the responsible instructor of the course (written, oral, presentation of assignments).

4.2 At the beginning of the examination and immediately after the distribution of the exam materials, examinees may submit clarification questions to the responsible instructor if accepted.

4.3 Students who have submitted the necessary documentation for an obligatory oral examination to the Secretariat are examined by the

responsible instructor during the written examination period, in a different location within the same building where the examinations are conducted. The Secretariat must inform the examiners in writing in advance about the number of students taking the oral examination.

4.4 Exiting the examination room during the examination and re-entry for any reason is generally prohibited. However, in exceptional cases and at the discretion of the invigilators, it may be permitted.

4.5 Cheating, collusion among examinees, or the use of any means to copy answers are strictly forbidden. In such cases, the invigilator is required to mark the scripts of the examinees involved and make relevant notes on the first page of the examination paper. The student must leave the examination room, and their paper is invalidated in these instances.

4.6 Fifteen (15) minutes before the scheduled end of the examination, examinees will be notified of the impending conclusion.

4.7 As soon as the specified examination time expires, invigilators must cease the examination and collect the answer scripts. Each examinee signs the attendance sheet, after verifying their identification details with the invigilator. Invigilators should strike out all empty spaces on the examination paper and countersign it. After tallying the scripts, they co-sign the attendance sheet and deliver it, along with the scripts, to the responsible instructor.

5.Examination Interruption

5.1 The interruption of the examination may only occur due to force majeure circumstances that make it technically impossible for examinees to complete their answers. The interruption is solely the responsibility of the responsible instructor.

5.2 In such a case, the examination is canceled, and the responsible instructor, in cooperation with the Secretariat, schedules a makeup examination immediately after the end of the current examination period.

5.3 An interrupted examination, as described above, is automatically awarded a grade of zero for examinees who have submitted their papers.

6.Cancellation of Examinations

6.1 Cancellation of an examination may be decided by the responsible instructor, especially in cases of proven leakage of exam materials, following a decision by the Department's General Assembly.

6.2 The General Assembly of the Department determines the need for a reexamination."

II.7 DISSERTATION

A. Assignment Procedure

1. The Dissertation Project (DP) is completed during the 3rd semester.
2. Each academic staff member, supervises a maximum of six specific DP topics in the field of their teaching or related academic subjects.
3. The academic staff member, informs the Secretariat in writing of the proposed DP topics and their relevant categories.
4. The total list of proposed DP topics, categorized by instructor, is posted on the notice board of the Master's Program Secretariat at the beginning of the 2nd semester.
5. Students select their DP topics from the list of specific topics announced by each academic staff member.
6. After finalizing the topic, through direct communication between the student and the supervisor, the student submits an application to the supervisor, who informs the Master's Program Secretariat in writing to proceed with the final approval (no later than the last session of the 2nd semester).

B. Development, Submission, and Examination of DPs

1. The DP is developed under the student's responsibility, with continuous monitoring and assistance from the academic staff member in charge. The department ensures the smooth development and presentation of DPs, using its available resources and collaborating with the institution's printing unit if necessary. Prior to each examination period, the supervisor provides a written preliminary acceptance certificate for the DPs they oversee.

2. The final submission of the DP takes place at least ten (10) working days before the examination date determined by the General Assembly of the Assembly of the Department. The DP is submitted to the Master's Program Secretariat, initially in three copies, which are immediately forwarded to the three members of the examination committee. The final approved copy remains with the supervisor, while another copy is mandatorily deposited in the department's library and is available for loan.

3. The presentation of the DP is composed using word processing software with the department's logo and must include the following: i. Abstract and Summary (200 to 500 words) in both Greek and English (only for the summary). ii. Table of Contents iii. Main content iv. Bibliographical references

4. DP examinations are conducted during the examination periods in February and/or June. These examinations are oral and public, held on dates specified by the General Assembly within the framework of the program prepared by the Master's Program Secretariat. Each presentation is limited to a maximum of 30 minutes (20 minutes for presentation and 10 minutes for discussion).

Examination and Grading of Dissertation Projects (DPs)

Examination and grading of DPs are conducted by a three-member Committee consisting of faculty members and individuals designated by Presidential Decree 407/80, with the supervisor making recommendations and the final decision resting with the Assembly of the Department. The Department

reserves the right to expand the number of Committee members, with the caveat that additional members do not have voting rights in the grading process. In each examination period, efforts are made to include common members across committees to ensure the fairest possible comparative evaluation. The Committee comprises the supervisor and two additional members with relevant expertise in the covered subject of the DP.

> A student deemed to have failed the oral presentation of the DP may be called for a re-examination in a subsequent examination period upon their request. If the student fails the re-examination, they may request a new topic within the same subject area to be examined in a subsequent DP examination period.

Guidelines for Writing Dissertation Projects (DPs)

Once approved by the supervising faculty member, the comprehensive project will be written following the guidelines outlined below.

Examination and Evaluation of Dissertation Projects (DPs)

The assessment and grading of Dissertation Projects (DPs) are carried out by a three-member Committee comprising faculty members and individuals designated by Presidential Decree 407/80. The supervising professor provides recommendations, while the final decision rests with the Assembly of the Department. The Department has the authority to expand the Committee's membership while ensuring that the newly added members do not take part in the grading process. Every effort is made to include common members across Committees during each examination period to ensure the fairest possible comparative evaluation. The Committee is composed of the supervisor and two other members with expertise related to the subject covered in the DP.

1. Students who are determined to have not succeeded in the oral presentation of their DP have the option to request a re-examination during a subsequent examination period. In case of a second failure, the student may submit a new topic request within the same subject area for examination during a subsequent DP examination period.

Guidelines for Composing Dissertation Projects (DPs)

Following approval by the supervising faculty member, the comprehensive project is prepared in accordance with the following guidelines.

Length of the Dissertation:	There are no specific word or page count limitations. The quantity of content does not necessarily correlate with the quality of a dissertation. What is required is a substantive and qualitative coverage of the subject matter under examination (with a minimum length of 50 pages for the dissertation).
Font:	Times New Roman, 12
Language:	Greek (with an English abstract following the Greek abstract)
Margins:	2,5cm margins on all sides
Line spacing:	1,5 spacing
Page Numbering:	Pages should be consecutively numbered from the first page after the title page to the end.
Images and Diagrams:	Black and white images within the text
Figures and Tables	Titles (captions) for both figures and tables should be at the top and included within the text. Presenting results from statistical or econometric software without processing and entry into appropriate tables is not recommended. If you include a ready-made table, be sure to include the source of origin.
Equations:	Equations should be numbered consecutively and appear on the left side of the page, with numbering in parentheses on the right side of the page.

Every figure, equation, or any other content used from existing literature should be clearly referenced. Each figure or diagram should have its source indicated at the bottom right corner, e.g., Source: Samarás (2009, p. 109).

If you have unpublished information, it should be referenced (in a footnote) as a personal communication, e.g., The information was obtained from Mr. G. Papandreou through personal communication.

Chapters - Subchapters

Divide the thesis into numbered chapters in ascending order. Subchapters will be numbered as 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in the numbering). Each chapter and subchapter will have a concise title. For example: Chapter 1 (TIMES NEW ROMAN 16, bold) Introduction (TIMES NEW ROMAN 14, bold)"

General Structure of Dissertation

Title Page On this page, the following must be displayed: i. The entire title of the thesis ii. The name, surname, and student ID of the student who wrote the thesis iii. The name and title of the supervising professor iv. The Master's Program, Department, and University where the thesis was completed (MSc in Applied Economics, Department of Economic Sciences, University of Thessaly) v. The year of thesis completion

Specifically, the title of the thesis will be centered, in uppercase, using Times New Roman 18, bold font. Above the title, it will state the MSc in Applied Economics, the Department of Economic Sciences, and the University of Thessaly. Following the title, the name, surname, and student ID of the student will be listed in Times New Roman 16, bold. Next is the title (Professor, Associate Professor, Assistant Professor, Lecturer), name, and surname of the supervising professor, in Times New Roman 14, bold. At the bottom of the page, it will be centered, with the notation 'Volos 2020' (Times New Roman 14, bold).

Declaration of Thesis Originality The student includes and signs the following:"

- Statement of Responsibility

I certify that I am the author of this thesis, and any assistance I received in preparing it is fully acknowledged and disclosed in the thesis. I have also cited all sources from which I obtained data, ideas, or words, whether they are quoted verbatim or paraphrased. Furthermore, I confirm that this thesis was prepared by me personally, specifically to meet the requirements of the postgraduate program in Applied Economics at the Department of Economic Sciences of the University of Thessaly. Volos, January 2015.

- **Acknowledgments (optional)**

  Acknowledgments or a personal dedication by the student may be included.

- **Table of Contents**
- **Abstract**

  Abstracts should be between 100-200 words and written in both Greek and English using Word. The page with the abstract should bear the thesis title, with the labels: "ΠΕΡΙΛΗΨΗ" (for the Greek version) and "ABSTRACT" (for the English version) in uppercase, using Times New Roman 14, bold font.

- **Keywords**

  Keywords (maximum of 5) should follow the abstract.

- **JEL Codes**

  JEL codes are provided after the keywords.

Introduction

- Literature Review (highlighting the candidate's contribution)
- Data (for empirical works, not for theoretical ones)
- Research Methodology (for empirical works, not for theoretical ones)
- Empirical Findings (for empirical works, not for theoretical ones)
- Discussion and Commentary
- Conclusions and Suggestions for Further Research
- Bibliography
- Appendices

If there are more than one appendix, label them as A, B, etc. Equations and formulas in the appendices should be numbered separately, for example, (A.1), (A.2), etc. In the subsequent appendix, use (B.1), and so on.

Bibliographic References

In the text, include the author's name and the year in parentheses, depending on whether:

1. The author's last name is not part of the text: (Author, 2009)
2. The author's last name is part of the text: Author (2009)
3. If there are three or more authors: (First Author et al., 2009)
4. If the same author appears more than once in the same year, write: (Author 2008a, b)
5. For articles under publication: (Author, forthcoming)

Footnotes

Footnotes are placed next to each citation or wherever additional clarification or support is required in the text. Footnotes are numbered consecutively from 1 to n and are provided in the footer.

Bibliography at the End

Reference to a Scientific Journal Dickey D.A. and Fuller W.A. (1981). Likelihood Ratio Statistics for Autoregressive Time Series with a unit Root, *Econometrica*, 49, 1057-1072.

Reference to a Book Hamilton J.D. (1994). Times Series Analysis, *Princeton University Press*, Princeton, New Jersey.

Reference to a Book Chapter Brunner K. and Melzer A.H. (1990). Money Supply. In: Friedman BM, Hahn FH (Eds), *Handbook of monetary economics, vol.1*, North-Holland: Amsterdam, 1990. pp. 357-396.

Articles with DOI Slifka, M.K., Whitton, J.L. (2000) Clinical implications of dysregulated cytokine production. *Journal of Molecular Medicine*, doi:10.1007/s001090000086

Online Articles Abou-Allaban, Y., et alii. (2006). Religious/spiritual commitments and psychiatric practice. Resource document. American Psychiatric   Association. http://www.psych.org/edu/other_res/lib_archives/archives/200604.pdf. Accessed 25 June 2007

The bibliography list is presented alphabetically with the authors' last names (first in foreign languages, then in Greek). The names of journals and book titles are italicized.

Citation of Original Text For direct quotations, enclose the sentence in quotation marks and provide the source at the end of the citation. Excessive use of such quotations should be avoided, as well as any form of copying (plagiarism) without proper source attribution. If there is doubt about the correct translation of an English scientific term into Greek, include the English term in parentheses in italics.

Intellectual Property Rights of Master's Thesis

The intellectual property rights of the master's thesis belong to the master's degree student. The master's thesis must be the work of the candidate; otherwise, the relevant degree cannot be awarded, as the law requires that the works submitted reflect the original contribution of the candidate.

In the subsequent publication of works derived from these theses, and if the supervising Professor or other individuals have made a substantial creative contribution to the work, each must be acknowledged according to their actual contribution.

In any print or electronic edition of the master's thesis, as well as in related publications, all parties must indicate the name of the University of Thessaly and the Department of Economic Sciences under which the work was conducted.

Bibliography The master's thesis is submitted in three copies (one for each member of the three-member examination committee), properly bound. After successful defense and the incorporation of any corrections, the candidate submits one bound copy for the Postgraduate Program in Applied Economics reading room.

Criteria for Master's Thesis Evaluation

The evaluation of a Master's Thesis is based on several key criteria:

1. **Current Knowledge**: Demonstrating an understanding of existing knowledge through relevant literature review.
2. **Data Acquisition**: Acquiring specialized data (data collection or theoretical results).
3. **Data Processing**: The level of data processing and quantitative documentation in the thesis, including data analysis, advanced statistical and econometric models, computer programming, applications to specific problems, and result assessment.

4. **Thesis Structure and Presentation**: The structure and written presentation of the thesis, including coherence of the text, proper use of terminology and language, precise formulation of concepts, and scientifically valid documentation of conclusions.
5. **Originality**: The originality of the thesis.
6. **Student's Initiative**: The student's enthusiasm and initiative.
7. **Oral Presentation Quality**: The quality of the oral presentation of the thesis.

The weights of the above criteria are determined during the assessment by the examination committee. The final grade for the thesis is calculated as the average of the final grades given by the three examiners, rounded to the nearest whole number, with a minimum passing grade of 5 (five).

II.8 Library and Reading Room Operation Regulation - University of Thessaly (UTH)

1. **Library Hours**: The UTH Library operates daily from Monday to Friday, opening at 08:00 and closing at 20:00. The annex of the Medical Department operates from 08:30 to 21:30.
2. **Central Library Services**: The central service of the library, responsible for material reception, bibliographic processing, and distribution to annexes, operates throughout the calendar year from 08:00 to 15:30.
3. **Library Access**: All members of the University community and the general public have the right to use the library. Upon entering the library, readers are required to leave their bags and other belongings in the designated entrance area, following the instructions of library staff.
4. **Prohibited Activities**: The consumption of food, beverages, and smoking is not permitted within the library and reading room premises.
5. **Book Handling**: Readers are not allowed to re-shelve books or periodicals after use. After using them, readers should close the books and neatly place them either at the edge of the table or in the designated area as indicated by library staff.

Please adhere to these regulations while using the library facilities at the University of Thessaly.

2. Reading Room

The Reading Room of the MSc Program will operate with hours that will be announced at the beginning of each semester and will aim to directly serve the students of the MSc Program.

All students of the MSc Program and the instructors of the Program have the right to use the Reading Room of the MSc.

The operating hours of the University of Thessaly Library and the Reading Room of the MSc during the months of July and August will be determined based on the available staff serving in these areas.

3 Borrowing/ Loan

To obtain a Library user ID card, which allows users to borrow materials from the Library, prospective users must complete a relevant application form in card format. These cards are provided by the library staff at the branch where the application is submitted. Submitting an application for the user status signifies that the prospective user accepts all the terms of this Regulation.

Students must present their student ID and provide not only their home address but also their permanent address and telephone number, if available. Members of the Academic community must provide their identification card details if they are not known to the Library staff. Users from the general public are issued user IDs based on their identification card details, workplace and home address, and telephone number, if available.

User IDs for the Library are issued by the Central Library and are supervised by the Head or the Organizational Supervisor of the Library. The user ID can be used for borrowing or searching materials at all Library branches, regardless of the branch where the application was submitted.

Scientific and other periodicals, dictionaries, and reference books cannot be borrowed. Manuscripts, rare editions, and other valuable Library materials are not available for borrowing.

Library users may borrow up to eight (8) items simultaneously for postgraduate students and specialized researchers, and up to three (3) items for the general public. The loan period is ten (10) calendar days. Borrowers have the right to renew items for ten (10) calendar days with the obligation of returning them upon first request.

When users systematically delay the return of materials, they lose borrowing privileges for six (6) calendar months. All users who are charged with overdue books or other Library materials do not have the right to borrow additional items.

Borrowing privileges cannot be transferred; each user borrows for themselves. Borrowing is done on a first-come, first-served basis.

Borrowers are responsible for the materials they have borrowed. Underlining or making notes in books is not allowed. Damaged books are not accepted for return. Users who have lost or damaged a book or other borrowed material must replace it within thirty (30) calendar days. Failure to replace it results in a charge, and the book's value is collected through public revenue collection procedures.

A number of books or other materials that are essential for courses and seminars and for which there are not many copies available constitute a Closed Collection and are only available for borrowing to students, members of the Teaching and Research Staff (T&RS), and instructors. This collection is compiled at the beginning of each semester, with the cooperation of the teaching staff and Library personnel, and is maintained for the duration of the course. Materials from the Closed Collection can only be borrowed for three (3) hours during class hours. They are borrowed after the Library closes, but must be returned by 09:00 the following day. If the borrowed item is not returned by that time, the borrower loses borrowing privileges from this collection for three (3) weeks. Users who systematically do not return items from the limited borrowing collection on time lose the right to borrow home items from the Closed Collection until the end of the semester.

During holidays (Christmas, Easter, Summer), students preparing for exams or working on assignments who are away from the Library branch may borrow

the materials they need for the entire period, provided that they have submitted a relevant request to the Library at least one month in advance to ensure sufficient copies are available or an agreed-upon return time if multiple students request the same book and the Library cannot obtain more copies. The borrowing of these books is based on a relevant list prepared by the Student Association in collaboration with the Head or Organizational Supervisor of the Library.

II.9 Operating Rules for Computer Labs

1. General Guidelines

Within the department, there is a personal computer laboratory located in the Matsaggou building. The laboratory is equipped with 16 personal computers (PCs) featuring Intel i3 processors, 4GB of RAM, and 500GB hard drives. It is primarily used for laboratory exercises as per the curriculum. Simultaneously, it is available to students for internet-related tasks, including information searches and email usage. Additionally, users have the capability to store data on recordable CDs and print electronic documents for their academic needs.

The laboratory equipment boasts modern multimedia production and processing capabilities and is connected to the University of Thessaly's network.

2. Usage Rights
- Laboratory usage is restricted to individuals associated with the academic community of the Department of Economic Sciences. This includes students, professors, researchers, teaching assistants, and administrative staff. Individuals not falling into these categories may be granted exceptional access to the laboratories with permission from the Laboratory Administrator.
- The laboratory equipment must not be used for commercial purposes or for any activities that generate financial gain for the user.

o Consumables (e.g., floppy disks, CDs) related to computer use are not provided by the laboratory and are the responsibility of each student.
o The laboratory does not offer permanent data storage space. Therefore, the use of floppy disks, CDs, or memory sticks for data storage and transfer of work-related data is strongly recommended. Data stored on local hard drives may be deleted without prior notice by the network administrator or by accident or malicious intent by others.

The recommended method for using floppy disks, CDs, and memory sticks is as follows:

1. Copy the files you wish to work on from the memory stick, floppy disk, or CD to the local computer.
2. Handle the files as desired (possibly making changes).
3. Copy the files back to the floppy disk or memory stick for permanent storage (if changes have been made).
4. This procedure ensures the best computer responsiveness.

3. Computer Usage

• Users are not allowed to obstruct the use of a PC they have utilized by setting a password ("locking" the terminal).

• Upon completing their tasks, each user must shut down the computer properly.

• Every user is responsible for leaving their workstation clean and free from personal items and papers.

• The equipment must not be moved to any other location within the labs, especially outside of the labs.

4. Software Installation - Computer Settings Changes

• The installation of any software (applications, utilities, games, etc.) on the lab computers is not permitted.

• Uninstalling software or deleting/moving files on the computers is not allowed.

• Any changes to computer settings, including changes to the position of icons, screen colors, and desktop background, are allowed only within each user's account.

• Only the Lab Administrator has the authority to install or uninstall software, make setting changes, and delete or move files. Users should contact the Lab Administrator if such actions are necessary.

5. Printer Usage

Following a decision by the General Assembly of the Department, the operation of the printers is regulated as follows:

• Laser printers are only to be used for printing students' assignments and for printing department-related information from the internet (e.g., information about other universities, etc.).

• The use of the printer for producing a large number of copies is not allowed.

• Printing documents unrelated to the University and its activities (educational or otherwise) is prohibited.

• The printer should not be used as a photocopying machine, i.e., for producing multiple copies of the same file (a dedicated machine is available for this purpose).

• Users should dispose of printed pages they no longer need in the recycling bin.

• For printing particularly large files, it is advisable to do so during times when the lab is not heavily used to avoid monopolizing the printer for an extended period and depriving other users of printing capabilities.

• Printing unrelated materials (images, songs, etc.) is not permitted.

6. Network Usage at the University of Thessaly

• Sending mass emails to all University users or to a specific group of students of a certain year is only allowed following the guidelines provided by the Lab Administrator. Sending mass emails to all users of any other institution or organization may be considered an action intended to disrupt the system.

• Any attempt to gain unauthorized access to computing resources of our university or any other institution and organization is strictly prohibited (unauthorized access).

• Any attempt to monitor data traffic and parameters of the network of any system (institution or user) or to investigate vulnerabilities of any system (institution or user) is not allowed.

• Transmitting software over the network that may cause harm to the university's system, another institution, or another user is strictly prohibited.

• The use of software designed to overload, disrupt, or destroy other systems is not permitted.

7. Student Behavior and Responsibilities

Formatted: Indent: Left: 0 cm, Space Before: Auto, After: Auto, Add space between paragraphs of the same style

1. Students should maintain cleanliness in the area and refrain from consuming food or beverages in the laboratory space. Smoking is also prohibited (there is a designated smoking area with signage), as well as listening to music.
2. Respect for the space, ensuring the proper functioning, and safeguarding the laboratories are essential.
3. Students should use laboratory materials responsibly, including computer usage and printing.

Those who do not adhere to the laboratory rules or the instructions of supervisors or the administrators of the Computer Center, or pose a potential security risk to the department's network, may be permanently barred from the laboratories, and further sanctions may apply, especially in cases of repeat offenses.

The technical details and operating hours of the laboratories are determined by the Laboratory Committee in consultation with the department's professors, based on specific needs.

8. Penalties

- To ensure the smooth operation and safety of the Department's facilities and equipment, compliance with the above regulations is mandatory. Irresponsible behavior and non-compliance with operational terms may result in the suspension of access by the responsible party.
- If a student is apprehended or found to be in possession of University property outside of its designated areas, it will be reported as theft, and they will face the legal consequences prescribed by law.
- Particular attention must be paid to the proper use of laboratory equipment and facilities. Those responsible for the operation have the authority to temporarily revoke access rights from users/students if:
    1. They determine that their behavior is detrimental or hazardous to the equipment.
    2. Their behavior disrupts fellow students who are working.
    3. They smoke, eat, or litter within the premises.

4. They relocate parts of a computer to another computer or outside the laboratory.

In case of violations of the above rules, the laboratory administrator has the right to revoke access rights for a certain period. In cases of repeated offenses, individuals will be referred to the Department's General Assembly for further action.

9. Software for the Computer Laboratory

In the case that additional software installation is required for educational purposes, it should be done with the approval of the Laboratory Administrator and under the supervision of the administrator. Software support for teaching is the responsibility of the faculty member or instructor in charge of the course in which the software is being used. The installation of any software package, even if it's freely available, by any user is strictly prohibited! The contents of each machine's disks are continuously monitored, and if files/programs created by the user are found, they will not only be deleted without warning but may also result in penalties (such as password locking) for the users!

10. User Support Service

In order to provide effective support to users and enhance our communication, a manager or administrator will be appointed as the point of contact for users to address their questions and report any issues they encounter. For problems unrelated to the Laboratories, users can contact the Network Operations Center (NOC) of the University of Thessaly (see the relevant website: www.noc.uth.gr).

III. CONTACT INFORMATION

Department of Economics, 78th 28 Octovriou str, 38333 Volos
Tel. 0030 24210 74771, Fax: 0030 24210 74772
Postgraduate Secretariat Office , 78th 28 Octovriou str , Ground Floor
Τηλ. 0030 24210 74700, Fax: 0030 24210 74772

CONTACT INFORMATION FOR ACADEMIC AND ADMINISTRATIVE STAFF

Name	Status	Phone	Email	OFFICE
Anagnostou Aggeliki	Assistant Professor with Tenure	2421074596	aganag@econ.uth.gr	B29
Arvanitidis Paschalis	Professor	2421074914	parvanit@econ.uth.gr	C10
Arsenopoulou Maria	Administrative Staff	2421074700	secpost@econ.uth.gr	I9
Vergou Penelopi	Specialized Scientific Teaching Staff	2421074922	pvergou@econ.uth.gr	B13
Vlachos Vasileios	Associate Professor	2421074728	vsvlachos@econ.uth.gr	C12
Zachilas Loukas	Associate Professor	2421074916	zachilas@econ.uth.gr	B6
Zervos Vasileios	Associate Professor	2421074612	vasilis.zervos@econ.uth.gr	C2
Zouboulakis Michail	Professor	2421074882	mzoub@econ.uth.gr	C27
Zisiadis Dimitrios	Specialized Scientific Teaching Staff	2421074365	dzisiadis@econ.uth.gr	B19
Zoupi Zoe	Head of Administrative Staff	2421074913	g-econ@uth.gr	I9
Iatridis Georgios	Professor	2421074918	giatridis@econ.uth.gr	C22
Kaskarelis Ioannis	Professor	2421074912	ikaskarelis@econ.uth.gr	C14
Kevork Ilias	Professor	2421074921	kevork@econ.uth.gr	C26

Kollias Christos	Professor	2421074925	kollias@econ.uth.gr	**B39**
Kontaxi Zachila Maria	Specialized Scientific Teaching Staff	2421073552	kontaxi@econ.uth.gr	**A8**
Metaxas Theodoros	Professor	2421074917	metaxas@econ.uth.gr	**B38**
Bellou Victoria	Professor	2421074729	vbellou@econ.uth.gr	**C21**
Oikonomou Athina	Associate Professor	2421074670	aeconomou@econ.uth.gr	**C24**
Papadamou Stefanos	Professor	2421074963	stpapada@econ.uth.gr	**B34**
Stergiou Andreas	Professor	2421074582	snadreas@econ.uth.gr	**B32**
Staboulis Georgios	Associate Professor	2421074721	ystambou@econ.uth.gr	**C11**
Tzemos Vasileios	Assistant Professor	2421074521	vtzemos@uth.gr	**B19**
Tzeremes Nikolaos	Professor	2421074911	bus9nt@econ.uth.gr	**C27**
Tzimourtos Vasileios	Specialized Technological Scientific Staff	2421074773	vtzimourtos@econ.uth.gr	**A9**
Tsilika Kiriaki	Associate Professor	2421074367	ktsilika@econ.uth.gr	**C13**
Halkos Georgios	Professor	2421074920	halkos@econ.uth.gr	**B30**
Psarianos Iakovos	Assistant Professor with Tenure	2421074917	ipsarian@econ.uth.gr	**C14**