

DEMOCRITUS UNIVERSITY OF THRACE
DEPARTMENT OF PHYSICAL EDUCATION & SPORT SCIENCE

UNDERGRADUATE PROGRAM OF STUDY

COURSE TITLE:

Research techniques

COURSE CODE:

N151

E.C.T.S. CREDITS

4

RESPONSIBLE FOR THE COURSE:

NAME	Thomas Kourtessis	
POSITION	Associate Professor	
SECTOR	Sport Management, School Physical Education & Recreation	
OFFICE	B1 - 8	
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CO-INSTRUCTORS	George Mavromatis, Professor Eleni Zetou, Assistant Professor Andreas Avgerinos, Lecturer	

SEMESTER:

1 st	<input type="checkbox"/>	2 nd	<input type="checkbox"/>	3 rd	<input type="checkbox"/>	4 th	<input type="checkbox"/>
5 th	<input checked="" type="checkbox"/>	6 th	<input type="checkbox"/>	7 th	<input type="checkbox"/>	8 th	<input type="checkbox"/>

COURSE TYPE:

Obligatory	<input checked="" type="checkbox"/>
Direction	<input type="checkbox"/>
Specialization	<input type="checkbox"/>
Prerequisite for specialization	<input type="checkbox"/>
Elective (<i>open</i>)	<input type="checkbox"/>

HOURS (per week):

2

DIRECTION (only for 3rd & 4th year courses):

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SPECIALIZATION (only for 3rd & 4th year courses):

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LANGUAGE OF TEACHING:

GREEK

ENGLISH

AIM OF THE COURSE (*content and acquired skills*):

The aim of the course is to provide students with knowledge and experience regarding: a) the design and the organization process of research and b) the research techniques (problem setting, research-null hypotheses, design, data collection, reliability and validity, sampling, qualitative and quantitative research etc.).

COURSE CONTENTS (*outline – titles of lectures*):

1. Introduction to research techniques – Some important words.
2. Stages of research.
3. Goal and research hypotheses.
4. Limitations and delimitations of research – Threats of internal and external validity of the research.
5. Threats of internal and external validity of the research II.
6. Variable types in research - Theoretical and functional definitions.
7. Sampling.
8. Different types of research.
9. Types of research I: experimental designs.
10. Types of research II: the use of questionnaire and interview.
11. Types of research III: descriptive research & epidemiology - Qualitative research – Observation
12. Types of research IV: review of literature & historical research.
13. The research proposal.

TEACHING METHOD (*lectures – labs – practice etc.*):

1. Lectures.
2. Labs.
3. Practical applications (quizzes).

ASSESSMENT METHOD(S):

1. Participation (15%)
2. Five quizzes (60%)
3. Project (35%)
4. Final exam.

LEARNING OUTCOMES:

- Upon the completion of this course the student will be able to:
1. Design and organize a research structure.
 2. Recognize and apply research processes (problem setting, design of the research, null hypotheses of a study, design of data collection, determination of the reliability and validity of a study, organization of the sampling process, recognition of the difference between qualitative and quantitative research etc.).
 3. Construct a simple research proposal.
 4. Criticize and reconstruct basic research scenarios.

LEARNING OUTCOMES – CONTINUED:

<i>Learning Outcomes</i>	<i>Educational Activities</i>	<i>Assessment</i>	<i>Students Work Load (hours)</i>
Ability to design and organize	Lectures, presentation	In-class	35

a research structure.	and discussion of practical examples, home study.	participation, quizzes.	
Recognition and application of research processes.	Lectures, presentation and discussion of practical examples, home study.	In-class participation, quizzes.	35
Ability to construct a simple research proposal.	Lectures, presentation and discussion of practical examples, home study.	In-class participation, quizzes	15
Ability to criticize and reconstruct basic research scenarios.	Lectures, presentation and discussion of practical examples, home study.	Final project, final exam	35
		TOTAL	120

OBLIGATORY & SUGGESTED BIBLIOGRAPHY:

<ol style="list-style-type: none"> 1. Bagiatis, K. (1997). Research methodology in physical education. Thessaloniki: Christodoulidis. 2. Thomas, J. & Nelson, J. (2003). Research methods on physical activity. Vol. II. Athens: Medical Publications Paschalidi. 3. Instructor's e-class notes.
