

CLINICAL NUTRITION

COURSE OUTLINE

GENERAL

SCHOOL	AGRICULTURAL SCIENCES				
			ON.		
DEPARTMENT	FOOD SCIENCE AND NUTRITION				
COURSE LEVEL	UNDERGRADUATE				
COURSE CODE	MK-714 SEMESTER Z'				
COURSE TITLE	CLINICAL NUTRITION				
INDEPENDENT TEACHING A	CTIVITIES				
			WEEKLY TEACHING HOURS		ECTS
Lectures		3		4	
La	Laboratory/ Tutorial Exercises				
COURSE TYPE	SCIENTIFIC AREA DEVELOPMENT OF SKILLS				
PREREQUISITES:	-				
LANGUAGE OF	GREEK				
TEACHING					
AND EXAMINATIONS:					
THE COURSE IS OFFERED	ENGLISH				
TO ERASMUS STUDENTS					
URL	-				

TEACHING RESULTS

Teaching Results

This course introduces basic knowledge in the field of dietary management of acute and chronic diseases. It aims to help students understand the diet therapy required to manage patients and to design appropriate dietary interventions at both an individual and a population level.

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

- 1. Understand the main nutritional problems affecting individuals and populations.
- 2. Recognize the importance of nutrition not only in the prevention but also in the treatment of clinical cases.
- 3. Perceive the scientific significance and evolution of the academic field of Dietetics-Nutrition, through epidemiological and clinical studies.
- 4. Evaluate recent scientific data in the field related to population groups that are at increased risk of developing diet-related diseases or who already have a diet-related disease.

General Skills

- Independent work
- Team work
- Promotion of free, creative, and inductive thinking
- Search, analysis, and synthesis of data and information, using the necessary technologies.
- Respect for diversity and multiculturalism

CONTENT



The content of the course puts emphasis on nutritional assessment, diagnosis, intervention, and monitoring of individuals suffering from: dyspepsia, anemia, obesity, metabolic syndrome, dyslipidemias, hypertension, diabetes mellitus, cardiovascular diseases, cancer, celiac disease, and irritable bowel syndrome.

<u>Clinical case studies:</u> a detailed diet care plan is developed for cases of dyspepsia, anemia, obesity, metabolic syndrome, dyslipidemias, hypertension, diabetes mellitus, cardiovascular disease, cancer, celiac disease, and irritable bowel syndrome.

1st Week

• Clinical case studies: approach and concepts.

2nd Week

• Clinical Case 1: Dyspepsia.

3rd Week

• Clinical Case 2: Anemia.

4th Week

• Clinical Case 3: Obesity.

5th Week

• Clinical Case 4: Metabolic Syndrome.

6th Week

• Clinical Case 5: Dyslipidemia.

7th Week

• Clinical Case 6: Hypertension.

8th Week

• Clinical Case 7: Type 1 Diabetes Mellitus.

9th Week

• Clinical Case 8: Type 2 Diabetes Mellitus.

10th Week

• Clinical Case 9: Cardiovascular Disease.

11th Week

• Clinical Case 10: Cancer

12th Week

• Clinical Case 11: Celiac Disease

13th Week

• Clinical Case 12: Irritable Bowel Syndrome

TEACHING AND LEARNING METHODS - EVALUATION

EACHING AND LEAKNING METHODS	- LVALOATION		
TEACHING METHOD.	FACE TO FACE		
USE OF INFORMATION AND	PRESENTATION OF LECTURES THROUGH PPT (PowerPoint)		
COMMUNICATION TECHNOLOGIES	USE OF COMPUTER DURING LECTURES BY THE TEACHER		
	SUPPORT OF THE LEARNING PROCESS THROUGH E-CLASS		
TEACHING STRUCTURE		Workload	
	Activity Semester		
	LECTURES	39	
	STUDY OF CLINICAL CASES	26	
	- DISCUSSION		
	INDEPENDENT STUDY OF 25		
	CLINICAL CASES -		
	WRITTEN		
	DOCUMENTATION		
	INDEPENDENT STUDY	10	
	TOTAL COURSE	100	



EVALUATION OF STUDENTS

1. WRITTEN EXAM (60%)

- -- Questions related to the course material (30% of the grade), development topics and/or multiple-choice questions
- -- Description of a nutritional care plan for a clinical case (30% of the grade)

LAB GRADE (40%)

- -- Participation and performance during the study of a clinical case
- -- Written report of clinical case results
- -- Oral examination of the written reports

A prerequisite for the final written exam is the successful attendance of the laboratory part of the course. For the recognition of the course, students must secure a passing grade in both individual grades.

BIBLIOGRAPHY

• Raymond JL, Morrow K. Krause and Mahan's Food & the Nutrition Care Process. 16th Edition. Saunders, 2022.

Accredited scientific articles from the international bibliography, indicative scientific journals: American Journal of Clinical Nutrition, European Journal of Clinical Nutrition, Lancet, New England Journal of Medicine, Circulation, Plos Medicine, Diabetes Care

Course Outlines



PUBLIC HEALTH NUTRITION

ΠΕΡΙΓΡΑΜΜΑ ΜΑΘΗΜΑΤΟΣ

ΓΕΝΙΚΑ

ΣΧΟΛΗ	AGRICULTURAL STUDIES				
TMHMA	FOOD SCIENCE AND NUTRITION				
ΕΠΙΠΕΔΟ ΣΠΟΥΔΩΝ	UNDERGRADUATE				
ΚΩΔΙΚΟΣ ΜΑΘΗΜΑΤΟΣ	ΜK-706 ΕΞΑΜΗΝΟ ΣΠΟΥΔΩΝ Ζ'				
ΤΙΤΛΟΣ ΜΑΘΗΜΑΤΟΣ	PUBLIC HEALTH NUTRITION				
ΑΥΤΟΤΕΛΕΙΣ ΔΙΔΑΚΤΙΚΕΣ Δ	ΤΙΚΕΣ ΔΡΑΣΤΗΡΙΟΤΗΤΕΣ		ΕΒΔΟΜΑΔΙΑΙΕΣ ΩΡΕΣ ΔΙΔΑΣΚΑΛΙΑΣ		ΠΙΣΤΩΤΙΚΕΣ ΜΟΝΑΔΕΣ
	Lectures		3		4
La	Laboratory/ Tutorial Exercises		2		
ΤΥΠΟΣ ΜΑΘΗΜΑΤΟΣ	SCIENTIFIC AREA DEVELOPMENT OF SKILLS				
ПРОАПАІТОУМЕНА МАӨНМАТА:	-				
ΓΛΩΣΣΑ ΔΙΔΑΣΚΑΛΙΑΣ και	GREEK				
ΕΞΕΤΑΣΕΩΝ:					
ΤΟ ΜΑΘΗΜΑ ΠΡΟΣΦΕΡΕΤΑΙ ΣΕ	ENGLISH				
ΦΟΙΤΗΤΕΣ ERASMUS					
ΗΛΕΚΤΡΟΝΙΚΗ ΣΕΛΙΔΑ	-				
MAΘΗMATOΣ (URL)					

ΜΑΘΗΣΙΑΚΑ ΑΠΟΤΕΛΕΣΜΑΤΑ

Μαθησιακά Αποτελέσματα

This course introduces basic concepts related to: public health, with an emphasis on public health nutrition, nutritional assessment at the individual and population level, dietary recommendations, policies for changing dietary habits at the individual, community, and population level, the role of the state in public health, setting priorities and nutritional goals at a global (global nutrition targets, Sustainable Development Goals) and national level, food safety, and the formulation of nutrition policy.

Upon successful completion of the course, students will be able to understand the role of nutrition in the etiology of contemporary chronic diseases and effective strategies/policies to address them.

The ultimate objectives of the course are:

- Familiarizing students with the basic principles governing public health, and how changes in dietary habits are achieved at the individual, community, and population level to promote good health or prevent poor health.
 - Introducing students to methods of nutritional assessment and dietary recommendations.
- Familiarizing students with the role of the state, and how the formulation of nutrition policy is achieved with the aim of protecting and promoting public health.

Γενικές Ικανότητες

- Independent work
- Team discussion
- Promotion of free, creative, and inductive thinking
- Respect for diversity and multiculturalism
- Interdisciplinary collaboration in solving nutritional matters of public health significance



ΠΕΡΙΕΧΟΜΕΝΟ ΜΑΘΗΜΑΤΟΣ

1ct Wook

• Role of nutrition in the etiology of modern chronic diseases | Principles of public health **2nd Week**

• Major chronic diseases related to nutrition: Obesity

3rd Week

• Major chronic diseases related to nutrition: Diabetes

4th Week

• Major chronic diseases related to nutrition: Cardiovascular diseases

5th Week

• Evidence-based dietary guidelines and recommendations | The role of the dietitian/nutritionist in promoting public health

6th Week

• Nutrition and technology | Functional foods | Food hygiene and safety and consumer protection | Nutrition labelling and marking

7th Week

• The role of dietary supplements in the diet and health of the population

8th Week

• Mediterranean diet and the westernization/urbanization of people's lifestyle

9th Week

• Nutritional oversight and supervision: Assessment of diet and health of the population | National dietary studies | National and International Agencies

10th Week

• Nutrition and Nutritional policies for individual intervention | Review of strategies in developed countries

11th Week

• Nutritional policies for community and population intervention | Review of public health and nutrition strategies in developed countries

12th Week

• Evaluation and effectiveness of intervention programs for promoting public health

13th Week

- Nutrition, health systems, and public health priorities | New research directions
- στρατηγικών στις ανεπτυγμένες χώρες

ΔΙΔΑΚΤΙΚΕΣ και ΜΑΘΗΣΙΑΚΕΣ ΜΕΘΟΔΟΙ - ΑΞΙΟΛΟΓΗΣΗ

ΤΡΟΠΟΣ ΠΑΡΑΔΟΣΗΣ	FACE TO FACE		
ΧΡΗΣΗ ΤΕΧΝΟΛΟΓΙΩΝ	PRESENTATION OF LECTURES THROUGH PPT (PowerPoint)		
ΠΛΗΡΟΦΟΡΙΑΣ ΚΑΙ ΕΠΙΚΟΙΝΩΝΙΩΝ	USE OF COMPUTER DURING LECTURES BY THE TEACHER		
Χρήση Τ.Π.Ε. στη Διδασκαλία, στην	SUPPORT OF THE LEARNING PROCESS THROUGH E-CLASS		
Εργαστηριακή Εκπαίδευση, στην Επικοινωνία			
με τους φοιτητές			
ΟΡΓΑΝΩΣΗ ΔΙΔΑΣΚΑΛΙΑΣ	A	Φόρτος Εργασίας	
	Δραστηριότητα	Εξαμήνου	
	LECTURES	39	
	DISCUSSION AND	26	
	PRESENTATION OF		
	INDIVIDUAL ASSIGNMENTS		
	INDEPENDENT STUDY –	25	
	WRITTEN DOCUMENTATION		
	& ORAL PRESENTATION OF		
	INDIVIDUAL ASSIGNMENTS		
	(PPT)		



	INDEPENDENT STUDY		10
	TOTA	L COURSE	100
ΑΞΙΟΛΟΓΗΣΗ ΦΟΙΤΗΤΩΝ			
	1. WRITTEN EXAM (60%) Multiple-choice questions Critical thinking and short development questions 2. LAB GRADE (40%) Participation and performance during the discussion and oral presentation of individual assignments. Written documentation of individual work.		hort development questions formance during the sentation of individual
	For course recognition, students must secure a passing grade in both individual gradings.		

ΣΥΝΙΣΤΩΜΕΝΗ-ΒΙΒΛΙΟΓΡΑΦΙΑ

- Spark A, Dinour LM, Obenchain J. Nutrition in Public Health: Principles, Policies, and Practice. 2nd Edition. CRC press, 2021.
- A. Catherine Ross. Modern Nutrition in Health and Disease. 11th Edition. Lippincott Williams and Wilkins

Accredited scientific articles from the international bibliography, indicative scientific journals: Public Health Nutrition, Lancet, New England Journal of Medicine, Circulation, Plos Medicine, Diabetes Care

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