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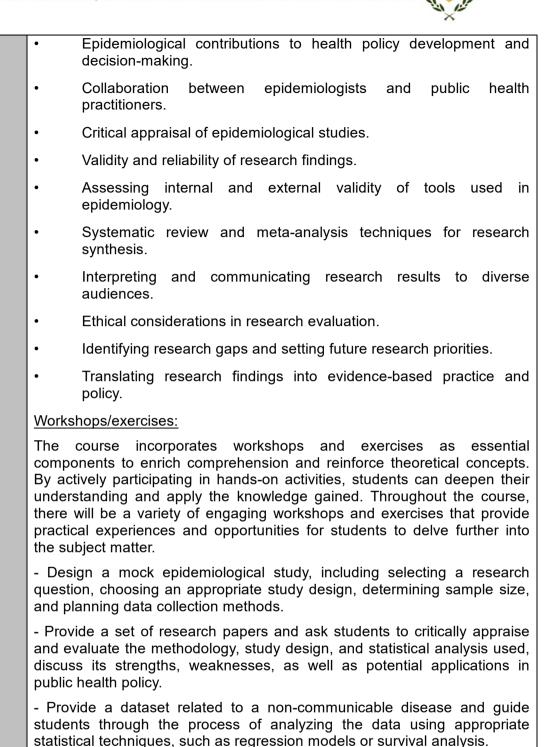
Course Title	Epidemiology and Public Health			
Course Code	ABS205			
Course Type	Compulsory			
Level	BSc (Level 1)			
Year / Semester	2 nd / 3 th			
Teacher's Name	Prof, Eleni Jelastopoulou, Dr Stavroula Gouzelou			
ECTS	6 Lectures / week 3	Laboratories/week 2		
Course Purpose	The purpose of the course "Epidemiology and Public Health" is to provide students with a focused and specialized understanding of how epidemiology applies to the study of non-communicable diseases and how it can contribute to the advancement of public health. The course aims to equip students with the knowledge and skills to investigate, analyze, and address the complexities of disease prevention and disease treatment from an epidemiological perspective. By exploring the patterns, risk factors, and impact of diseases, students gain insights into prevention, intervention, and public health strategies. The course ultimately prepares students to contribute effectively to the fields of epidemiology and public health and take part in the design and implementation of initiatives aimed at reducing the burden of disease on individuals and populations.			
Learning Outcomes	The curriculum encompasses various essential aspects related to epidemiology of diseases and public health. Students delve into the principles and methods of epidemiology, gain a deep understanding of disease patterns, risk factors, and measures of disease occurrence. They explore different study designs, such as cohort studies, case-control studies, and cross-sectional studies, and learn how to select the most appropriate design for specific research questions. Additionally, the course covers data collection techniques, sampling methods, and sample size determination tailored to non-communicable disease research. Students acquire skills in data analysis, including statistical techniques commonly used in epidemiological studies of non-communicable diseases. They learn to interpret and draw valid conclusions from the results obtained. Furthermore, the course emphasizes the evaluation of research findings including assessing the quality and validity of epidemiological studies. The connection between epidemiology and public health is thoroughly explored. Students understand the role of epidemiology in informing public health interventions and policies targeting non-communicable diseases. They explore the social determinants of health and disparities related to disease, along with strategies for health promotion and disease prevention. Finally, the curriculum includes characteristic examples of health promotion and disease prevention interventions such as cancer screening programs and community-based intervention programs to demonstrate the basic principles of diagnostic accuracy, diagnostic utility and cost effectiveness in healthcare. Throughout the curriculum, ethical considerations in epidemiology and public health practice are addressed.			





Prerequisites	None	Corequisites	None	
Course Content	Theory:			
	Introduction to communicable dise	epidemiology and eases.	its relevance to non-	
	Basic concepts: in of disease occurre	•	risk factors, and measures	
	Study designs: col studies, and exper		trol studies, cross-sectional	
	Data collection tec biomarkers.	hniques: surveys, meo	lical records, registries, and	
	Sampling methods and sample size determination.			
	Data analysis: of measures of assoc		hypothesis testing, and	
	Bias, confounding,	and effect modification	n.	
	Ethical consideration	ons in epidemiological	studies.	
	Observational strain applications.	udy designs: strer	ngths, weaknesses, and	
	Experimental study experimental design		l controlled trials and quasi-	
	Longitudinal studi disease research.	es and their releva	nce of non-communicable	
	Data collection examinations, and		questionnaires, physical	
	Measurement tech investigations	niques for risk factors	including clinical laboratory	
	 Statistical analysi survival analysis. 	s techniques: basic	regression models and	
	Interpretation of re	sults and drawing vali	d conclusions.	
	Public health princ diseases.	piples and their applic	ation to non-communicable	
	Social determinar disparities.	nts of health and	their impact on disease	
	Screening and ear	ly detection strategies	in public health.	
	Epidemiological a prevention.	pproaches to health	n promotion and disease	
	Program planning	and evaluation in publ	ic health interventions.	
	Principles of dia effectiveness.	gnostic accuracy, d	iagnostic utility and cost	





- Design a mock public health promotion policy encompassing screening for a non-communicable disease and a community-based intervention program.

Teaching Methodology	The teaching methodology employs a multifaceted approach to facilitate learning. Theoretical lectures provide foundational knowledge,
	supplemented by detailed notes and visual aids. Interactive workshops and exercises allow students to apply epidemiological concepts to real-world scenarios. Group discussions foster critical thinking, collaboration, and the exchange of ideas among students. Through this comprehensive approach





	to epidemiology, students develop a solid understanding of the subject matter and gain the necessary skills to contribute to the prevention, control, and management of disease through evidence-based approaches.	
Bibliography	 (a) <u>Textbooks</u>: 1. ASCHENGRAU, Ann; SEAGE, George R. Essentials of epidemiology in public health. Jones & Bartlett Publishers, 2013. 	
	(b) References:	
	 REMINGTON, Patrick L.; BROWNSON, Ross C.; WEGNER, Mark V. (ed.). Chronic Disease Epidemiology, Prevention, and Control. 2016. 	
Assessment	For student evaluation, the overall grade is determined by a written midterm exam (20%), workshops/exercises (20%) and a written final exam (60%).	
	The mid-term exam is carried out between the 6th and 8th week, and it mainly includes short answer questions and problem- solving questions and examines most modules of the course.	
	As far as the workshops/exercises grade is concerned, it comprises of the evaluation of the reports submitted by the students for each workshop. In the workshops/exercises, students are asked to describe the procedure, to evaluate and analyse their results and to answer specific questions.	
	The final exam of the course is carried out during the 14 th -16 th week of each semester, and it includes short answer questions, critical thinking questions, and problem-solving questions regarding all course modules.	
	The final assessment of the students is formative and summative and complies with the subject's expected learning outcomes and the quality of the course.	
Language	Greek, English	