## **COURSE SYLLABUS**

(1)	GENERAL				
	SCHOOL	HEALTH SCIENCES - MAN	AGEMENT ANI	D ECONOMICS	
		SCIENCES			
	DEPARTMENTS	SOCIAL WORK			
		<ul> <li>NUTRITION AND DIETETIC</li> <li>DUSINESS ADMINISTRATIC</li> </ul>	S SCIENCES	N 4	
		- BUSINESS ADIVIINISTRATIC	JN AND TOURISI	IVI	
			SEMAESTED	1	
		CDDA-AU5	SEIVIESTER	1	
INDEPENDENT TEACHI					
		NG ACTIVITIES	TOTAL TEACHING HOURS	CREDIT UNITS (ECTS)	
Lecture	25		12	Not awarded	
	COURSE TYPE	General Knowledge - Man	datory without	t final exams	
PREREQUISITE COURSES:		-			
LAN	GUAGE OF TEACHING and	Greek			
	EXAMINATIONS:				
Tŀ	IE COURSE IS OFFERED TO	-			
	ERASMUS STUDENTS				
(2)	COURSE WEBSITE (URL)	https://eclass.hmu.gr/cou	rses/SW355/		
(2) LEAI	RNING OUTCOMES				
	amploting the course study	onts will have knowledge of	the theory an	d application of	
After completing the course, students will have knowledge of the theory and application of descriptive and inductive Statistics and will understand how the social and medical sciences use it as a tool for applied research. In particular, they will be able to conduct descriptive statistics on a set of data, summarize the relationship between two variables, and compare groups of populations with each other on various quantitative characteristics. They will also be able to choose the appropriate procedure depending on the problem they are facing. Finally, using specialized Computer software to register their data and implement the methods they were taught. The course is offered at postgraduate level and the learning outcomes correspond to level 7 of the European Qualifications Framework for Lifelong Learning (EQF). Based on the above, after the successful completion of this seminar course, students are expected to be able to:					
Knowle 1. 2. Skills. S 1. 2. 3. Abilitie 1.	edge. Students will be able understand and be able to understand the concept of Students will be able to: compare mean values from compare mean values measurements (pairwise sa to estimate the significance s. Students will be able to: create frequency tables will	to: calculate concepts such as correlation between two q n two groups or intervention from two groups or in amples) e of the results with the p-v	mean and stan ualitative varia ns with indepe iterventions v alue.	ndard deviation ables ndent samples with correlated e corresponding	
1.	granhs	in quantative and quantitati	ive uata anu th	e con esponding	
С	graphis calculate nercentages belo	w the normal distribution			
2. ع	estimate the standard erro	or of the mean and its 95% of	onfidence inte	erval	
4.	compare mean values fro samples	om different groups or int	erventions wi	th independent	
5.	estimate the significance of	f the results with the p-valu	ie		
6.	carry out post-hoc checks		-		

6. carry out post-hoc checks

Gener	al Skills
The co	ourse aims for the students to acquire the following general skills:
•	Search, analysis and synthesis of data and information, using the necessary technologies
•	Autonomous work
•	Decision making
•	Promotion of free creative and inductive thinking
(3) COI	URSE CONTENT
The co	ourse includes the following thematic sections:
•	Basic Statistics Concepts – Describing data with tables and graphs
•	Measures of Central Tendency and Dispersion – Normal distribution – estimation of population parameters - Error Pearson and Spearman's Correlation Coefficients –

- Simple Linear Regression
- χ2 tests for qualitative data
- Comparison of population means by ANOVA
- Comparison of population means by t-test with independent observations or pairs

## (4) TEACHING and LEARNING METHODS - EVALUATION

METHOD OF DELIVERY	The teaching of the course includes:		
	• Live interactive lectures (lectures), with	h additional	
	critical commentary on studies / modern		
	literature, exercises and assignments during the		
	course.		
USE OF INFORMATION AND	Slide show. Use of the e-class electronic platform to		
COMMUNICATION	access notes/ex. articles. By using the same platform		
TECHNOLOGIES	and teachers.hmu.gr, frequent communication with the		
	students about everything related to the educational		
	process and academic life.		
TEACHING ORGANIZATION	Activity	Semester	
TEACHING ORGANIZATION	Activity	Semester Workload	
TEACHING ORGANIZATION	Activity Lectures, Seminars and Interactive	Semester Workload 12	
TEACHING ORGANIZATION	Activity Lectures, Seminars and Interactive teaching	Semester Workload 12	
TEACHING ORGANIZATION	Activity Lectures, Seminars and Interactive teaching Study and analysis of articles -	Semester Workload 12 12	
TEACHING ORGANIZATION	Activity Lectures, Seminars and Interactive teaching Study and analysis of articles - bibliography - Independent Study	Semester Workload 12 12	
TEACHING ORGANIZATION	ActivityLectures, Seminars and Interactive teachingStudy and analysis of articles - bibliography - Independent StudyTotal Course	Semester Workload 12 12 24	

## (5) RECOMMENDED-BIBLIOGRAPHY

- Suggested Bibliography:

Dacey CP, Reidy J. (2020) Statistics without Mathematics. Athens: Critique

Howitt, D. & Cramer, D. (2010). Statistics with SPSS 16, with Applications in Psychology and the Social Sciences (4th ed.). Athens: Keydarithmos.

-Related scientific journals:

- Biometrics
- Journal of Applied Statistics
- Journal of Biostatistics
- Statistics in Medicine