AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Epidemiology								
Course Code	BİS538		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To become familiar with epidemiologic terminology, outcome measures, and study designs;to appreciate application of epidemiology to subfields (e.g., infectious diseases, reproductive health, genetics); and to apply epidemiologic methods to current public health issues.								
Course Content	Basic principles and concepts of epidemiology; design, analysis and interpretation of epidemiological studies; the study of chronic diseases, infectious diseases and genetic epidemiology; measures of disease incidence and prevalence and measures of effect; cohort, case-control studies and their strengths and limitations.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Case Study								
Name of Lecturer(s)	Prof. Mevlüt TÜRE								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Beaglehole, R. (1998). Temel epidemiyoloji. Nobel & Güneş Tıp Kitabevi.
2	Akbulut, İ., & Sabuncu, H. (1993). Sağlık bilimlerinde araştırma yöntemi, Epidemiyoloji Prensip ve Uygulamalar. Sistem Yay ıncılık, Örünç Ofset, Istanbul.
3	Rothman, K. J., Greenland, S., & Lash, T. L. (2008). Modern epidemiology (Vol. 3). Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins.
4	Szklo, M., & Nieto, F. J. (2014). Epidemiology: beyond the basics. Jones & Bartlett Publishers.

Week	Weekly Detailed Course Contents	
1	Theoretical	Measuring Disease Occurrence
2	Theoretical	Surveillance
3	Theoretical	Infectious Disease Epidemiology
4	Theoretical	Direct & Indirect Standardization
5	Theoretical	Data Sources & Secondary Analyses
6	Theoretical	Hypothesis Testing & Significance
7	Theoretical	Bias, Confounding & Effect Modification
8	Intermediate Exam	Midterm Examination
9	Theoretical	Causation & Risk
10	Theoretical	Sampling Strategies & Descriptive Studies (Ecological, Cross Sectional, and Qualitative)
11	Theoretical	Case Control & Nested Case Control Studies
12	Theoretical	Cohort Studies & CBPR
13	Theoretical	Intervention Studies
14	Theoretical	Screening
15	Theoretical	Literature review and discussion
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	1	14	2	16
Assignment	1	10	0	10
Quiz	10	2	1	30
Midterm Examination	1	20	2	22

Final Examination	1	20	2	22
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Distinguish the roles and relationships between epidemiology and biostatistics in the prevention of disease and the improvement of health.
2	Compute basic descriptive statistics and explore data analytic methods.
3	Demonstrate a basic understanding of epidemiologic methods and study design.
4	Combine appropriate epidemiological concepts and statistical methods.
5	Planning, application and evaluation of epidemiological research

Programme Outcomes *(Biostatistics Master)*	
1	To be able to understand the interdisciplinary interaction releated with biostatistics.
2	to be able to use Theoretical and practical knowledge at the level of expertise.
3	To be able to nterpret the information by integrating information from different disciplines and create new information
4	To be able to nalyze the problems encountered by using research methods
5	to be able to conduct a study as an independent specialist
6	To be able to formulate solutions for complex unpredictable problems encountered by developing new approaches and taking responsibility.
7	To be able to resolve problems in environments that require leadership.
8	To be able to evaluate and direct knowledge and skills with a critical approach at the level of expertise.
9	To be able to to give statistical advise at the begining stages of preparing health related projects
10	To be able to get the knowledge and the ability of using statistical packages

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4
P1	5	3	4	5
P2	4	4	5	4
P3	4	4	4	4
P4	4	4	4	4
P5	3	4	5	5
P6	4	4	4	4
P7	3	3	4	4
P8	4	3	4	4
P9	4	3	4	4
P10	4	4	4	4