AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Evidence Based Medicine							
Course Code		BİS541		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	95 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The aim of this subject to ensure that the best available evidence is carefully, carefully and intelligently used when decision-making in the main objective patient's diagnosis and treatment process.							
Course Content		Define evidence-based medicine and its steps, searching the literature by keywords, definition, calculation and interpretation of the most common measures of association (relative risk, NNT) used in clinical trials, identification of the research designs used in medical studies, gold standard, "double-blinding" and independence in diagnostic tests, calculation and interpretation of diagnostic test performance (sensitivity, specificity,accuracy, etc.), description of the methodological principles and steps of a systematic review of the literature.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Explanation (Presentation)						
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Final Examination	1	100

Recommended or Required Reading

1	Straus, S. E., Glasziou, P., Richardson, W. S., & Haynes, R. B. (2018). Evidence-Based Medicine E-Book: How to Practice and Teach EBM. Elsevier Health Sciences.
2	Greenhalgh, T. (2010). How to read a paper: The basics of evidence-based medicine. John Wiley & Sons.
3	Heneghan, C., & Badenoch, D. (2006). Evidence-based medicine toolkit. BMJ Books/Blackwell Pub..
4	Mayer, D. (2004). Essential evidence-based medicine (Vol. 1). Cambridge University Press.

Week	Weekly Detailed Course Contents	
1	Theoretical	Evidence-Based Medicine and History and Evidence-Based Practices
2	Theoretical	Concepts related to Evidence-Based Medicine
3	Theoretical	Evidence levels: What is the best proof available?
4	Theoretical	Evidence Based Application Process
5	Theoretical	Evidence-Based Application Resources
6	Theoretical	Systematic Review
7	Theoretical	Evidence-Based Practice Guides
8	Intermediate Exam	Midterm exam
9	Theoretical	Cochrane Center and operating instructions
10	Theoretical	Levels of Evidence - Scoring System by Hierarchy of Evidence
11	Theoretical	Evidence-based application examples
12	Theoretical	Evidence-based application examples
13	Theoretical	Evidence-based application examples
14	Theoretical	Evidence-based application examples
15	Theoretical	Literature review and discussion
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	1	2	45

Assignment	10	3	2	50
			Total Workload (Hours)	95
			[Total Workload (Hours) / 25*] = **ECTS**	4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to explain the concepts related to evidence-based medicine and its history and evidence-based practices
2	Counting levels of evidence
3	Select the best available proof
4	To be able to say evidence-based application sources
5	To be able to interpret evidence-based scientific 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	L5
P1	5	4	4	3	4
P2	4	4	4	4	4
P3	3	4	5	4	5
P4	3	4	4	4	4
P5	3	3	4	4	4
P6	3	4	3	3	4
P7	3	3	4	3	4
P8	3	3	3	4	4
P9	2	3	3	3	3
P10	2	3	2	3	4