



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Research Principles in Stem Cell							
Course Code		KHÜ533		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	6	Workload	145 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		In this course, it is aimed to learn the basic concepts of research and the stages of research planning.							
Course Content		Basic concepts of research, types of research, probable problems in research, research planning, research reporting.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Abramson JH, Abramson ZH (2008) Making Sense of Data: A Self-Instruction Manual on the Interpretation of Epidemiological Data, Oxford.
2	Abramson JH (1999), Survey Methods in Community Medicine: Epidemiological Research Programme Evaluation Clinical Trials, New York
3	Aksakoğlu, G.(2001).Sağlıkta Araştırma teknikleri ve Analiz Yöntemleri, DEU Rektörlük Matbaası, İzmir.
4	Aksakoğlu, G.(2006).Sağlıkta Araştırma ve Çözümleme, DEU Rektörlük Matbaası, İzmir.
5	Altman DG (1995), Practical Statistics for Medica Students, Chapman and Hall, UK.

Week	Weekly Detailed Course Contents	
1	Theoretical	Research concepts, research principles
2	Theoretical	Research Types and classification
3	Theoretical	Descriptive Research / Cross-sectional Research
4	Theoretical	Case-control Research
5	Theoretical	Cohort Studies
6	Theoretical	Intervention Research
7	Theoretical	Methodological Research
8	Theoretical	Types of qualitative research
9	Intermediate Exam	Mid-term exam
10	Theoretical	Sources of error and types of errors in research
11	Theoretical	Sample selection, determination of sample size
12	Theoretical	Sample applications for determination of sample size
13	Theoretical	Research planning and reporting types
14	Theoretical	Ethical process in research
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	2	39
Assignment	2	14	1	30
Midterm Examination	1	24	2	26



Final Examination	1	48	2	50
Total Workload (Hours)				145
[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Have knowledge about the basic concepts and principles of research
2	Knows the sources of error in research
3	Has an idea about sample selection and determination of sample size in researches
4	Understands the stages of research planning
5	Realize the research application

Programme Outcomes (*Stem Cell and Regenerative Medicine Interdisciplinary Master*)

1	To have comprehensive and in-depth knowledge of Stem Cell and Regenerative Medicine
2	To have information about stem cell production and characterization
3	To learn stem cell sources, stem cell types and their differences
4	To understand the molecular and genetic structure of stem cells
5	To be able to learn and make stem cell culture methods
6	To be able to adapt the knowledge in the field of stem cells to research in line with current developments
7	To be able to use molecular laboratory methods used in stem cell research
8	Learning in vitro disease models and in vivo experiments related to stem cells
9	To have knowledge about stem cell therapies and clinical use
10	Conduct independent research in accordance with the principles of research and publication ethics

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

	L1	L2	L3	L4	L5
P6	2	2	2	2	2
P10	4	3	4	3	5

