



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Stereological Methods							
Course Code		THE634		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Adopting the history and basic principles of stereological techniques;teaching basic methods and tools used in stereological techniques; sampling and systematic bias, sampling strategy and number calculations; to teach the principles of disector and disassembly.							
Course Content		History of stereology and other methods of measurementEnvironmental sources of biologySampling, bias and sampling bias Analysis strategy and systematic bias Basic principles of application of stereology Basic methods and tools applied in spectral techniquesSurgical volume measurement methods and Cavalieri's principle							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	basic stereology
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Week	Weekly Detailed Course Contents	
1	Theoretical	History of stereology and other measurement methods
2	Theoretical	Development and terminology of stereological techniques
3	Theoretical	Sources of bias in microscope
4	Theoretical	Sampling, bias and sampling bias
5	Theoretical	Sampling strategy and systematic bias
6	Theoretical	Basic principles of stereology
7	Theoretical	Basic methods and tools in stereological techniques
8	Intermediate Exam	mid-term exam
9	Theoretical	Stereological volume measurement methods and Cavalieri principle
10	Theoretical	Stereological volume measurement methods and Cavalieri principle
11	Theoretical	Number calculation with stereological techniques
12	Theoretical	Number calculation with stereological techniques
13	Theoretical	Dissecting principle
14	Theoretical	Physical dissector
15	Theoretical	general overview
16	Final Exam	final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	4	84
Assignment	6	2	3	30
Reading	9	2	2	36
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Have information about the history of stereology
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2	Have knowledge about development and terminology of stereological techniques
3	Have information about sampling strategy and systematic bias
4	Have knowledge about number calculation with stereological techniques
5	Have knowledge about dissector, physical dissector and disintegration principles

Programme Outcomes (Histology and Embryology Medical) Doctorate)

1	To have basic laboratory skills and attitudes
2	To be a scientist with strong educational background and presentation.
3	To have information about laboratory safety
4	To learn the histology and embryonic development of related organs and systems
5	To know the differences between related organs at the tissue level.

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	4	4	4	5	3
P2	5	5	5	5	4
P3	3	3	4	4	3
P4	4	4	3	3	5
P5	3	3	4	4	4

