



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Principles of Flow Cytometry and Applications							
Course Code		TIB631		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course									
Course Content									
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	1. Flow Cytometry: Principles, Methodology and Applications - Stefanos Papandreou - Nova Science Publishers, Inc. (December 30, 2013)
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Week	Weekly Detailed Course Contents	
1	Theoretical	History of Flow Cytometry
2	Theoretical	Physical and Chemical Principles I
3	Theoretical	Physical and Chemical Principles II
4	Theoretical	Working principles of Flow Cytometry I
5	Theoretical	Working principles of Flow Cytometry II
6	Theoretical	Dyes used in Flow Cytometry
7	Theoretical	Dyeing applications
8	Intermediate Exam	Midterm Exam
9	Practice	Immuno phenotyping
10	Practice	Apoptosis detection in Flow Cytometry
11	Practice	Quantitatif Flow Cytometry
12	Theoretical	Application in Hematology
13	Practice	Applications in Clinical diagnosis
14	Practice	Other applications
15	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	3	2	65
Lecture - Practice	13	2	2	52
Midterm Examination	1	2	2	4
Final Examination	1	2	2	4
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	
2	
3	
4	



5

Programme Outcomes (*Medical Biology Doctorate*)

1	To acquire fundamental knowledge on medical biology field
2	To gain expertise on molecular biology techniques
3	To utilize molecular biology techniques
4	To be able to construct and conduct a research project
5	To be able to follow and interpret scientific advancements

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	3	2	2	2
P2	2	4	4	5	5
P3	2	3	3	3	3
P4	3	3	3	2	3
P5	3	2	2	2	3

