AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Signal Transmission in the Cell								
Course Code	THE629		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	6	Workload	150 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	ability to have information about signal transduction in the cell								
Course Content	Describe the pathways that play an important role in the differentiation of cells at the molecular level.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Problem Solving								
Name of Lecturer(s)	Assoc. Prof. Erkan GÜMÜŞ								

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

Recommended or Required Reading	
1	Histoloji ve Hücre Biyolojisi

Week	Weekly Detailed Course Contents	
1	Theoretical	overview of intercellular communication
2	Theoretical	paracrine signal
3	Theoretical	synaptic signal
4	Theoretical	endocrine signal
5	Theoretical	g protein coupled receptors
6	Theoretical	receptor tyrosine kinases
7	Theoretical	ligand gated ion channels
8	Intermediate Exam	mid-term exam
9	Theoretical	transduction molecules
10	Theoretical	response
11	Theoretical	intracellular signal transduction pathways
12	Theoretical	cAMP pathway
13	Theoretical	other signal pathways
14	Theoretical	article scan
15	Theoretical	general overview
16	Final Exam	final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	3	70
Assignment	14	2	3	70
Reading	10	0	1	10
			Total Workload (Hours)	150
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	ability to have information about signal transduction pathways
2	ability to have information about signals
3	ability to have information about receptors
4	ability to have information about cAMP pathway

5	ability to have information about other signal pathways

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