THE CELL

1	Course Title:	THE CELL
2	Course Code:	THE 5001
3	Type of Course:	Compulsory
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	1.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	NONE
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. ZEHRA MİNBAY
15	Course Lecturers:	Prof. Dr. Zehra Minbay
16	Contact information of the Course Coordinator:	e-posta: sahinas@uludag.edu.tr telefon: 295 40 61 adres: Uludağ Üniversitesi Tıp Fakültesi Histoloji ve Embriyoloji AbD.
17	Website:	http://tip.uludag.edu.tr/histoloji-embriyoloji/
18	Objective of the Course:	The purpose is to provide students with an understanding of eukaryotic cell structure and function. It also provides students with an appreciation of the interaction of cells within and among the various tissues and organ systems. Such an understanding will lead to a better comprehension of the processes that occur in pathology and pathophysiology.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Perceive the inseparability of structure and function in living organisms.
	2	Know the names and functions of the various structural components of cells.
	3	Know the important subunits of each cellular component and the relationship of each subunit to the component's function.
	4	Name the general and specialized functions of cells, and know the role of the various cellular components in each function.
	5	Recognize a cell's structural components in a light or electron photomicrograph and from this predict the cell's function(s).
	6	Predict which structures will be present in a cell from its function.
	7	Predict the functional deficit(s) that would occur in a cell as a result of specific structural aberrations.
	8	Predict the cell component(s) most likely to be involved in a particular functional deficit.
	9	Understand and give examples of cell differentiation.
	10	

21	Course Content:
	Course Content:

Week	Theoretical	Practice
1	Introduction	
2	Cell membranes I	
3	Cell membranes II	
4	Mitochondria	
5	Ribosomes	
6	Endoplasmic reticulum	
7	Golgi apparatus	
8	Lysosomes, proteasomes, and peroxisomes	
9	Microfilaments, microtubules, and intermediate filaments	
10	Cell nucleus I	
11	Cell nucleus II	
12	Cell cycle	
13	Mitosis	
14	Programed cell death	

22	Textbooks, References and/or Other Materials:	1. Kierszenbaum AL, Tres LL. Histology and Cell Biology: An Introduction to Pathology. 3rd ed. Philadelphia: Elsevier Saunders; 2010. with Student Consult Access. Philadelphia: Elsevier Saunders; 2008.

23	Assesment				
Activites			Number	Duration (hour)	Total Work Load (hour)
Theoretical			14	1.00	14.00
Practicals/Labs			0	0.00	0.00
Self study and preperation			14	2.00	28.00
Homeworks			2	20.00	40.00
Projects			0	0.00	0.00
Midterm Exam	1	40.00			
Field Studies			0	0.00	0.00
Midterm exams			1	1.00	1.00
Home work-project	0	0.00			
Others			0	0.00	0.00
Final Exams			1	1.00	1.00
Total	2	100.00			
Total Work Load					84.00
Total Work Load / 30 hr					2.80
ECTS Credit of the Course					3.00
Total		100.00			
Measurement and Evaluation Techniques Used in the Course					

24	**ECTS / WORK LOAD TABLE**

25	**CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS**															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0
ÖK2	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0

ÖK3	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0
ÖK4	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0
ÖK5	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0
ÖK6	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0
ÖK7	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0
ÖK8	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0
ÖK9	5	1	1	2	1	5	2	5	4	4	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**