

PATHOLOGY LABORATORY APPLICATIONS

1	Course Title:	PATHOLOGY LABORATORY APPLICATIONS	
2	Course Code:	TLTZ110	
3	Type of Course:	Compulsory	
4	Level of Course:	Short Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr. Gör. Dr. SELVA KABUL	
15	Course Lecturers:	Öğr. Gör. Dr. Elif ERTÜRK	
16	Contact information of the Course Coordinator:	Doç.Dr. Nesrin UĞRAŞ Bursa Uludağ Üniversitesi Tıp Fakültesi Tıbbi Patoloji Anabilim Dalı Görükle / Nilüfer / Bursa Tel: 0 224 4253669	
17	Website:		
18	Objective of the Course:	To develop technical staff who are competent in carrying out operations outside of microscopic evaluation and who can apply traditional and modern techniques in pathology department.	
19	Contribution of the Course to Professional Development:	Gains the ability to have a basic knowledge about the normal structure and functions of tissues and to analyze this information at the cell and tissue level. Uses professional terminology effectively.	
20	Learning Outcomes:		
		1	The student, which has the knowledge about theoretical and practical classes of pathology and pathology laboratory that supported with the up-to-date material, applies in the professional work area.
		2	The student has the knowledge and the artifice about save and transpor methods of the biologic materials.
		3	The student has the knowledge about the dysinfection, sterilization and preperation methods for every analysis and also knows how to apply them.
		4	The student has the knowledge about the basic tests, preperation of the solutions that are used in the different divisions of the laboratory.
		5	The student has the theoretical and practical knowledge and skills about chemical solution preperation which are used in the laboratory.
		6	The student knows how to use the laboratory instuments according to the rules and techniques, how to do the general controls and after cares.
		7	The student can make work organization in the laboratory, can take responsibilities in the teamwork and also individially according to his position in the laboratory.

	8	The student has the knowledge about the safety preventions, applies the personnel safety rules and makes the laboratory conditions safe.
	9	The student has the ability to communicate with the colleagues, medical doctors, other medical staff and patients as well in an efficient way and by observing the ethics.
	10	The student has the consciousness about how important the professional knowledge thus the student attends the educational programmes and activities in whole work life.
21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	INTRODUCTION TO PATHOLOGY	PREPARATION OF TISSUE FIXATION SOLUTIONS
2	PATHOLOGICAL MATERIAL TYPE	ROUTINE LABORATORY PROCEDURES 1
3	TERMS USED IN PATHOLOGY	ROUTINE LABORATORY PROCEDURES 2
4	MACROSCOPIC DEFINITION AND SAMPLING IN PATHOLOGY	ROUTINE LABORATORY PROCEDURES 3
5	TISSUE FIXATION SOLUTIONS	ROUTINE LABORATORY PROCEDURES 4
6	TISSUE PROCESSOR	ROUTINE LABORATORY PROCEDURES 5
7	TISSUE EMBEDDING AND SECTIONS FROM BLOCK	TISSUE PROCESSOR
8	MIDTERM EXAM	
9	STAINING PROCEDURES APPLIED IN BIOPSY MATERIALS IN PATHOLOGY	TYPES OF TISSUE STAINING
10	STAINING PROCEDURES APPLIED IN Cytology MATERIALS IN PATHOLOGY	CYTOLOGY LABORATORY PROCEDURES
11	HISTOCHEMICAL STUDY IN PATHOLOGY	STAIN PREPARATION IN HISTOCHEMISTRY LABORATORY
12	IMMUNOHISTOCHEMICAL STUDY IN PATHOLOGY	IMMUNOHISTOCHEMICAL LABORATORY PROCEDURES
13	FROZEN UNIT IN PATHOLOGY	PROCESSES IN FROZEN UNIT AT SURGERY
14	ARCHIVING IN PATHOLOGY	PATHOLOGY ARCHIVING SYSTEM
22	Textbooks, References and/or Other Materials:	Robbins and Kumar. Basic Pathology Turkish Pathology Associations Federation Web Page
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBER
		WEIGHT
Midterm Exam		1
Quiz		0
Home work-project		0
Final Exam		1
Total		2
Contribution of Term (Year) Learning Activities to Success Grade		40.00
Contribution of Final Exam to Success Grade		60.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Students' attendance, midterm and final exams are evaluated.
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	8	5.00	40.00
Homeworks	2	7.00	14.00
Projects	1	10.00	10.00
Field Studies	0	0.00	0.00
Midterm exams	1	15.00	15.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

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	3	2	3	2	3	2	3	2	3	2	3	2	0	0	0	0
ÖK2	3	2	3	3	2	3	2	3	2	3	2	3	0	0	0	0
ÖK3	3	2	2	3	2	1	3	3	3	3	3	3	0	0	0	0
ÖK4	2	2	3	2	1	2	3	3	3	3	3	3	0	0	0	0
ÖK5	3	3	2	2	1	3	2	3	3	2	2	3	0	0	0	0
ÖK6	2	2	2	2	2	2	3	3	2	3	1	3	0	0	0	0
ÖK7	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0	0
ÖK8	3	3	2	1	2	3	1	3	3	3	3	2	0	0	0	0
ÖK9	3	2	3	2	3	2	2	3	2	2	3	1	0	0	0	0
ÖK10	3	2	1	1	2	3	3	2	3	2	3	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			