

TRANSFUSION IMMUNOHAEMATOLOGY

1	Course Title:	TRANSFUSION IMMUNOHAEMATOLOGY	
2	Course Code:	TKB5002	
3	Type of Course:	Compulsory	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	6.00	
8	Theoretical (hour/week):	1.00	
9	Practice (hour/week):	2.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç.Dr. YASEMIN HEPER	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:	yheper@uludag.edu.tr	
17	Website:	http://saglikbilimleri.uludag.edu.tr/anabilimdallari.php	
18	Objective of the Course:	To give theoretical knowledge about clinically important antigens and antibodies in transfusion medicine and to upskill the usage and interpretation of laboratory tests about these antigens and antibodies	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To know the characteristics of blood groups
		2	To determine the major and minor blood group antigens
		3	To know, applicate and interpret pretransfusion compatibility tests
		4	To know, applicate and interpret the tests required to solve the clinical problems about transfusion
		5	To know the importance of platelet and leukocyte antigens in transfusion medicine
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21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	Blood groups (definition, terminology, genetics, structure and functions)	Blood grouping	
2	ABO blood group system	Blood grouping	
3	Rh blood group system	Subgroup practice	
4	Other blood groups	Subgroup practice	

5	Methods and standards of blood grouping	Solving blood grouping problems
6	Pretransfusion compatibility tests and clinical importance	Cross-match
7	Pretransfusion compatibility tests and clinical importance	Cross-match
8	Molecular tests for blood grouping	Cross-match
9	Problem solving in immunohematology lab and advanced technical methods	DAT, IAT
10	Clinical relevance of the HLA system in blood transfusion	DAT, IAT
11	Platelet antigens, granulocyte antigens and their clinical importance	Titration of isohemagglutinins
12	Approach to alloimmunisation and hemolytic transfusion reactions	Adsorption-elution tests
13	Immunological complications of transfusion	Laboratory approach to transfusion reactions
14	Immunological complications of transfusion	Laboratory approach to transfusion reactions
22	Textbooks, References and/or Other Materials:	National Guide For Blood and Blood Components (Turkish Ministerium for Health) Essential guide to blood groups (Geoff Daniels-Imelda Bromilow) Technical Manuel (American Association of Blood Banks)
23	Assesment	
TERM LEARNING ACTIVITIES		NUMBER
		WEIGHT
Midterm Exam		0
Quiz		0
Home work-project		4
Final Exam		1
Total		5
Contribution of Term (Year) Learning Activities to Success Grade		10.00
Contribution of Final Exam to Success Grade		90.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		
24	ECTS / WORK LOAD TABLE	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	1	82.00	82.00
Homeworks	4	8.00	32.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	24.00	24.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

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	1	0	3	3	5	0	4	5	0	4	0	0	0	0	0	0
ÖK2	1	0	3	3	5	0	4	5	0	5	0	0	0	0	0	0
ÖK3	1	0	3	3	5	0	4	5	0	5	0	0	0	0	0	0
ÖK4	0	0	2	3	4	0	1	2	0	5	0	0	0	0	0	0
ÖK5	0	0	0	4	0	0	0	0	0	5	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			