BLOOD PHYSIOLOGY										
1	Course Title:	BLOOD	PHYSIOLOGY							
2	Course Code:	TFZ 5005								
3	Type of Course:	Compuls	sory							
4	Level of Course:	Second	Cycle							
5	Year of Study:	1								
6	Semester:	1								
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:	No								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. NACİYE İŞBİL BÜYÜKCOŞKUN								
15	Course Lecturers:	Prof. Dr. Kasım Özlük Prof. Dr. Naciye İ. Büyükcoşkun								
16	Contact information of the Course Coordinator:	Prof. Dr. Kasım Özlük kasim@uludag.edu.tr 2954001 Tıp Fakültesi Fizyoloji Anabilim Dalı								
17	Website:									
18	Objective of the Course:	The aim is to learn about the physical properties of blood, production of blood cells, and their functions, as well as to understand how blood remains without clotting and haemostatic mechanism work in case of a vessel injury with practical and theoretical classes								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To know about the physical properties of blood							
		2	To know the mechanism for producing blood cells							
		3	To be able to count blood cells in the laboratory							
		4	To have knowledge of platelet function and blood clotting mechanism							
		5	To be able to determine the bleeding time, clotting time and the sedimentation rate							
		6	To have knowledge of the fibrinolytic system and fibrinolytic tests							
		7	To have the understanding about the mechanisms of infection protection in the body							
		8	To be knowledgeable about blood groups and be able to determine them							
		9	To have knowledge about the mechanisms of anticoagulants action							
		10								
21	Course Content:									

	Course Content:										
Week	Theoretical		Р	Practice							
1	Physical properties of blood		The presentation of the laboratory materials, microscope usage and safety rules to pay attention for laboratory staff								
2	Haematopoiesis and hematopoietic s	systems	Blood sampling methods								
3	Erytropoiesis and its regulation, eryth	rocytes	Red blood cell count with haemocytometer method,								
4	Haemoglobin, haemoglobin types		Leukocyte count with haemocytometer method,								
5	Lökopoez and leukocyte types		Trombocyte count with haemocytometer method								
6	Hematopoietic agents, anaemia		Determination of haemoglobin level, hematocrit measurement								
7	Iron homeostasis		Le	eukocyte formula in the	e peripheral blood s	mear					
8	Platelet and functional characteristics	s'		Reticulocyte and platelet count by indirect methods in the peripheral blood smear							
9	Haemostasis and coagulation		Drawing blood from vein, sedimentation rate measurement, haemolysis								
10	Fibrinolytic system		Determination of fibrinolytic activity								
Activit				Number	Duration (hour)	Load (hour)					
Theore	lical		defibrinated blood, investigation of capillary resistance								
Practic	als/Labs			14	2.00	28.00					
Self ₃ stu	dy and preperation Blood droups			1	28.00	28.00					
Homew				4	16.00	64.00					
Project	8			0	0.00	0.00					
Field S	tudies			0	0.00	0.00					
Midtern	petians			0	0.00	0.00					
Others				6	4.00	24.00					
Final E	dalanterials:		М	dical Physiology Willi	2274. 6 70 Ganong	24.00					
	/ork Load					182.00					
	ork load/ 30 hr					6.07					
	Credit of the Course	LILIMADE	Lva	FIGUE		6.00					
IERWIL	EARNING ACTIVITIES	NUMBE R	WEIGHT								
Midterm Exam 0				0.00							
Quiz		0	0.00								
Home \	work-project	4	0.00								
Final E	xam	1	100.00								
Total		5	100.00								
	ution of Term (Year) Learning Activitions Grade	es to	0.00								
Contrib	ution of Final Exam to Success Grade	e	100.00								
Total			100.00								

Measurem Course	ent ar	nd Eva	aluatio	n Tec	hnique	s Use	d in th	ne								
24 EC	CTS /	/ WO	RK L	OAD	TAB	LE										
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	4	0	4	0	0	0	0	0	3	0	0	0	0	0	0	0
ÖK4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	4	0	4	0	0	0	0	0	3	0	0	0	0	0	0	0
ÖK6	4	0	4	0	0	0	0	0	3	0	0	0	0	0	0	0
ÖK7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			LO: L	earr	ning (Objec	tive	s F	Q: P	rogra	am Qu	alifica	ations	5	•	·
Contrib ution	1 v	1 very low 2 low				3 Medium			4 High			5 Very High				

Level: