CARDIAC, CIRCULATORY AND RESPIRATORY SYSTEM

1	Course Title:	CARDIAC, CIRCULATORY AND RESPIRATORY SYSTEM
2	Course Code:	TIP2007
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	4.00
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. Tıp Fakültesi Öğrenci İşleri
15	Course Lecturers:	Prof. Dr. Kasım Özlük, Prof. Dr. İhsaniye Coşkun, Prof. Dr. Senem Turan Özdemir, Prof. Dr. İlkin Çavuşoğlu, Prof. Dr. Nevzat Kahveci, Prof. Dr. Fadıl Özyener
16	Contact information of the Course Coordinator:	Prof. Dr.Fadıl Özyener fozyener@uludag.edu.tr Tel: (224) 29 54013
17	Website:	http://tip.uludag.edu.tr/ders/tip-2007.php
18	Objective of the Course:	To explain anatomical, histological and physiological characteristics of cardiac, circulatory and respiratory systems of human organism by ensuring interdisciplinary integration
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Be able to demonstrate anatomical and histological characteristics of cardiac placement, nerves, vessels and spaces along with its conductive system
	2	Be able to explain mediastenial structures, histology of vessel systems, portal vessels, arteriovenous anastomosis and innervations
	3	Be able to list anatomical and histological characteristics of nose, larynx, trachea and lungs
	4	Be able to compare respiratory system structures at macro and micro level
	5	To explain properties, functions and regulation of cardiac muscle as a pump
	6	Be able to analyse fundamental ECG recordings
	7	To be able to explain the short and long term regulation of blood pressure along with various circulation systems in the body
	8	To be able to explain the short and long term regulation of blood pressure

	9	To be able to analyse fundamental cardiac and circulatory physiopathology
	10	To be able to determine fundamental physiological parameters of cardiac, circulatory and respiratory systems

21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1		Heart's location, interior layers and spaces of the heart
2	Cardiac histology and excitation system physiological properties of cardiac muscle	Major blood vessels and other mediasten structures, Lymphatic system
3	Physiological and rhythmic characteristics of cardiac muscle and cycle	Nose and relevant structures
4	Regulation of cardiac functions	Larynx and relevant structures
5	Phonocardiogram, ECG	Trachea, lungs and respiratory muscles
6	Mediastenial structures, lymphatic system. Histology of vessels, portal vessels, arteriovenous anastomosis and innervations	Microscopy of heart and circulatory system
7	Physical characteristics of circulation, artery and Vein functions, microcirculation and oedema	Microscopy of respiratory system organs
8	Local control of blood flow by tissues, neural and humeral regulation, cardiac output,	Microscopy of circulatory & respiratory systems
9	Short and long term regulation of blood	Examinations at frog's heart and myocardium (ı)
11	Trachea and lungs	Cardio-circulatory system practices (ııı)
	Mechanics of respiration	
	pressures , oxygen and carbon dioxide	
14	Respiratory physiopathology, respiration in	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	4.00	56.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	4.00	56.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	15.00	15.00
Others	0	0.00	0.00
Final Exams	1	25.00	25.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

2- Sistematik Anatomi, Gövsa Gökmen F. İzmir Güven
Çeviri Editörü: Prof.Dr. Yener Aytekin. Nobel Tip Kitabevleri, 2006.
4- Di Fiore Histoloji Atlasi: Victor P. Eroschenco, Çeviri Editörü: Prof. Dr. R Demir, Palme Yayincilik, 2001.
5- Textbook Of Medical Physiology. Guyton AC, Hall JE., Elsevier Saunders, 11th ed., 2011.
6- Review Of Medical Physiology. Ganong WF., 23rd Ed., 2010.
7- Principles Of Anatomy And Physiology. Tortora GJ & Grabowski SR; 9th Ed., John Wiley & Sons Inc., 2000.
8- İnsan Fizyolojisi. Widmaier EP, Raff H ve Strang KT, Çev Ed: Demirgören S.,10. Baskı, 2010

23	Assesment	
TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**

Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
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		

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	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	5	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	4	4	0	0	2	0	0	0	0	0	0	0	0	0	0	0
ÖK10	4	2	0	5	2	3	3	0	0	3	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**