

METABOLISM

1	Course Title:	METABOLISM
2	Course Code:	TIP2002
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	5.50
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. Erdoğan Şendemir, Prof. Dr. İlknur Arı, Prof. Dr. Naciye İşbil Büyükcoşkun, Prof. Dr. Semiha Ersoy, Prof. Dr. Nevzat Kahveci, Prof. Dr. Zehra Serdar, Prof. Dr. Zehra Minbay, Doç. Dr. Arzu Yılmaztepe Oral
16	Contact information of the Course Coordinator:	Doç.Dr. Arzu Yılmaztepe Oral arzuy@uludag.edu.tr 53921 UÜTF Tıbbi Biyokimya A.D. Görükle Bursa
17	Website:	
18	Objective of the Course:	To show the anatomic and microscopic structure of the digestive system, to explain the digestion and absorption functions considering the structure of the system, to teach the changes in the absorbed particles and teach the tests used for investigating the disorders of the system.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To show the anatomic structure of the digestive system
	2	To show the microscopic structure of the digestive system
	3	To learn the digestion and absorption functions
	4	to learn the changes in the absorbed particles
	5	to learn the tests used for investigating the disorders of the digestive system.
	6	to learn the mechanisms of the associated diseases
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21	Course Content:	
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Week	Theoretical	Practice
1	Anatomy of the mouth and the salivary glands	

2	General principles of the gastrointestinal tract Pharynx and the swallowing			
3	Histology of the tubular digestive tract Oral cavity and histology of the pharynx Digestion in the mouth; mechanical and chemical activities Anatomy of the oesophagus and stomach	Histology of the mouth, pharynx, oesophagus and stomach		
4	Anatomy of the small intestine Histology of the oesophagus and stomach	Digestive system – histology 1		
5	Motor functions and secretion of the stomach and their regulation Digestive physiology of the stomach Anatomy of the large intestine			
6	Anatomy of the large intestine Anatomy of the liver and cholelithiasis Histology of the small intestine	Anatomy of the small and large intestine		
7	Histology of the small intestine Anatomy of the appendix Anatomy of the pancreas and spleen Vascular anatomy of the digestive system	Digestive system – histology 2		
8	Histology of the liver Metabolism of hemoglobin	Large glands, nerve and vessels of the digestive system - anatomy		
Activities		Number	Duration (hour)	Total Work Load (hour)
Theoretical	Anatomy of the portal and systemic systems Histology of the salivary glands and pancreas	14	4.00	56.00
Practicals/Labs		14	2.00	28.00
10	Basal metabolism and regulation of the body temperature	10	3.00	30.00
Homeworks		0	0.00	0.00
Projects	Intestine Secretion of the pancreas	0	0.00	0.00
Field Studies		0	0.00	0.00
11	Secretion of the gallbladder Digestion and absorption in the small intestine	1	20.00	20.00
Others		0	0.00	0.00
Final Exams	Digestion of proteins and urea synthesis	1	26.00	26.00
Total Work Load				180.00
Total work load of 30 hr				5.33
ECTS Credit of the Course				5.50
	Anatomy of the periton and its parts			
13	Metabolism of VLDL, LDL, HDL and their metabolic disorders Laboratory tests of digestion and absorption Protein digestion and synthesis of urea	Serum lipid profile		
14	Carbohydrate metabolism and its disorders Elements and their metabolism	Glucose and oral glucose tolerance test		

