

## SPECIAL TOPICS IN BIOCHEMISTRY

1	Course Title:	SPECIAL TOPICS IN BIOCHEMISTRY	
2	Course Code:	TIP2037	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	2	
6	Semester:	3	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	1.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	NONE	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Prof. Dr. MELEHAT DİRİCAN	
15	Course Lecturers:	Prof. Dr. Melahat DİRİCAN	
16	Contact information of the Course Coordinator:	mdirican@uludag.edu.tr 2953912 Uludağ Üniversitesi, Tıp Fakültesi Biyokimya Anabilim Dalı 16059, Bursa	
17	Website:	<a href="http://tip.uludag.edu.tr/ders/tip-2037.php">http://tip.uludag.edu.tr/ders/tip-2037.php</a>	
18	Objective of the Course:	Speciality Areas of Biochemistry focus on the pregnancy and fetal development, laboratory investigations of pediatric patients, geriatric clinical chemistry, body fluid analysis (cerebrospinal fluid, pleural fluid, peritoneal fluid, synovial fluid, pericardial fluid, sweat) and specimen collection.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	To knowing normal pregnancy and fetal development and the presence of pathological conditions
		2	To knowing significant biochemical differences between normal adults and pediatric and geriatric period
		3	To describe normal findings of CSF, pleural fluid and peritoneal fluid
		4	To explain exudate, transudate, abnormal findings of CSF and other biological fluids
		5	To describe principles of the specimen collection
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Specimen collection and processing		

<b>2</b>	Factors that alter results of a laboratory test	
<b>3</b>	Pregnancy and fetal development	
<b>4</b>	Placenta ve placental hormones	
<b>5</b>	Fetal biochemical changes	
<b>6</b>	Pathological conditions associated with pregnancy	
<b>7</b>	Prenatal testing	
<b>8</b>	Pediatric biochemistry	
<b>9</b>	Postnatal testing	
<b>10</b>	Physiologic changes in the elderly	
<b>11</b>	Geriatric clinical chemistry	
<b>12</b>	CSF and laboratory investigation	
<b>13</b>	Investigation of pleural and peritoneal fluid	
<b>14</b>	Investigation of sweat and synovial fluid	

24	ECTS / WORK LOAD TABLE
----	------------------------

[illegible]

ÖK4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	4	0	0	0	0	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					