CLINICAL BIOMECHANICS											
1	Course Title:	CLINICA	L BIOMECHANICS								
2	Course Code:	FTR1010)								
3	Type of Course:	Compuls	ory								
4	Level of Course:	First Cyc	le								
5	Year of Study:	1									
6	Semester:	2									
7	ECTS Credits Allocated:	3.00									
8	Theoretical (hour/week):	2.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:										
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	ace								
14	Course Coordinator:	Doç. Dr.	Özden ÖZKAL								
15	Course Lecturers:										
16	Contact information of the Course Coordinator:	Dr. Öğr. e-posta:o tel:0224- Adres: B Fizyotera	Üyesi Özden ÖZKAL ozdenozkal@uludag.edu.tr -2942450/55372 3ursa Uludağ Üniversitesi Sağlık Bilimleri Fakültesi api ve Rehabilitasyon Bölümü Görükle Kampüsü-Bursa								
17	Website:										
18	Objective of the Course:	To define basic terms and principles related to clinical biomechanics, to approach and analyze the situations encountered in clinical problem solving biomechanically.									
19	Contribution of the Course to Professional Development:	The profe physiothe exercise practices	essional contribution of this course is to provide a basis for erapists to choose the most biomechanically appropriate for the patient during case evaluation and rehabilitation S.								
20	Learning Outcomes:										
		1	Define the basic definitions and principles of biomechanics.								
		2	Explain the basic principles of force and motion.								
		3	Explain the biomechanical properties of tissues.								
		4	Explains the biomechanical properties of joints.								
		5	Explain the biomechanical properties of gait.								
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
		Co	ourse Content:								
Week	Theoretical		Practice								
1	Introduction to the course, informing the course	about									
2	Introduction to biomechanics basic of	concepts									

3	Biome	mechanical properties of tissues: tendon ament																	
4	Biome	chan	nical	prope	erties	of tissu	es: bo	one											
5	Biome	chan	nical	prope	erties	of tissu	es: m	uscle											
6	Biome	chan	nical	prope	erties	of tissu	es: ne	erve											
7	Upper biome	extre chan	emit iics	y bion	necha	nics: S	hould	er											
8	Upper biome	limb chan	bion bics	mecha	anics:	Elbow	and h	and											
9	Spine	oiom	nech	anics															
10	Lower biome	ver extremity biomechanics: Pelvis and hip mechanics																	
11	Lower biome	extre chan	emit lics	y bion	necha	nics: K	inee												
12	Lower biome	extre chan	emit lics	y bion	necha	nics: fo	oot												
13	Gait a	nd ba	alan	ce bio	mech	anics													
14	Biome	omechanical research areas																	
22	Textbo Materi	extbooks, References and/or Other aterials:								 Lecture Notes. Akalan NE, Temelli Y. Lecture with basic kinesio- mechanical clinical examples. Istanbul tip kitabevleri,2016. Peterson Dr, Bronzino JD. Biomechanics: Principles and Practices. CRC Press, Taylor and Francis Group, 2015. Winkelstein, Beth A. Orthopaedic biomechanics. CRC 									
Activites								1	Numb	ber		Dura	Duration (hour) Total V Load (
Theoretical									5.1 bio	5 Brinckmann P, Frobin 200 Leivseth (G. Museungskeletal					
Practicals/Labs									(0				0.00			0.00		
SER MILEARNING ACTIVITIES								WÉ	WÉIGHT			4.00	4.00			28.00			
Homew	lomeworks									0			0.00	0.00			0.00		
Project	g Exan								44	40,00			0.00	0.00			0.00		
Field S	tudies		1							0			0.00	0.00			0.00		
Midterr	B M G Kap S lect 0												14.00	0.00			0.00		
Others	\$									100.00			0.00			20.00			
Final E	xams						2			20.00					20.00				
																104.00			
									╧┿							3.00			
Total 130 00 3.00																			
Measurement and Evaluation Techniques Used in the Relative evaluation																			
24 ECTS / WORK LOAD TABLE																			
25			(CON	TRIE	UTIO	N OI	F LEA	ARN QUA	ING LIFIC		COME: NS	S TO I	PROC	GRAM	ME			
	PC	1 P	Q2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
ÖK1	5	4		4	0	0	0	0	0	0	0	0	0	3 0	0	0	0		
ÖK2	4	4		4	0	0	0	0	0	0	0	0	0	0	0	0	0		

ÖK3	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	b 1 very low		2 low		3 Medium		4 High		5 Very High							