Course Title	Code	Semester	Theoretical (hours/week)	Practice (hours/week)	Laboratory (hours/week)	ECTS
Technology-Based Applications in Physical Therapy and Rehabilitation.	**FTR621**		**3**	**0**	**0**	**10**

Prerequisites	-
Course Language	Turkish
Course Type	Compulsory
Teaching Methods	Question-Answer Technique, Brainstorming Technique, Inquiry-Based Learning Model, Expository Method
Instructor(s)	
Course Objective	It is to evaluate problems through the analysis of balance, gait, and coordination disorders.
Course Learning Outcomes	1. Understand the use and benefits of technology-based applications 2. Develop models and techniques that can be used in clinical applications in the field of physical therapy and rehabilitation 3. Develop the attitude to use technology-based applications in the field of physical therapy 4. Use technology-based applications in the development of clinical decision-making skills.
References	1.Tarakçı & Tarakçı, Technology in Rehabilitation; Istanbul Publishing House, 2018 2. Johnston V, O'Leary S, Comans T, et al. Comparison of workplace exercise and health promotion interventions to prevent and reduce the economic and personal burden of non-specific neck pain in office workers: a clustered randomized controlled trial protocol. J Physiother 2014; 60(4):233-239

WEEKLY COURSE TOPICS

Weeks	DISCUSSION TOPICS TO BE PROCESSED
1.	Introduction to the course and resources, discussion of teaching methods, and introduction to resources
2.	The use of technology in healthcare systems
3.	History of rehabilitation technologies
4.	Examination of the technology required in physical therapy
5.	Artificial Intelligence in Rehabilitation Applications and Education
6.	Midterm Exam
7.	Use of Clinical Decision Support Systems
8.	Robotic technologies in rehabilitation
9.	Assistive technologies for mobility
10.	Technologies that enhance physical activity
11.	Telerehabilitation
12.	Advantages and disadvantages of using technology in rehabilitation
13.	Clinic work
14.	Clinic work
15.	**Final Exam**

ECTS / WORK LOAD TABLE

Activities	Number	Duration	Total Work Load
Course	14	3	42
Laboratory			
Practice			
Field Study			
Outclass course work hours (Self working / Teamwork / Preliminary work)	14	5	70
Presentations (Video preparation / Poster preparation / Oral presentation / Focus group discussion / Applying questionnaire/ Observation and report writing)	14	3	42
Seminars			
Project	2	48	96
Case study			
Role playing, dramatization			
Preparing and criticizing article			
Semester midterm exams			
Semester final exams			
Total Work Load (hour) / 25(s)	250 / 25		
ECTS	10		

EVALUATION SYSTEM

Midterm Studies	Number	Contribution
Midterm exam		
Quiz		
Laboratory		
Practice		
Field Study		
Specific practical training (If exists)		
Homework assignment		
Presentation and seminar	1	%25
Projects	1	%25
Other evaluation methods		
Total of Midterm Studies		%50
Final Studies		
Final		
Homework assignment		%50
Practice		
Laboratory		
Total of Final Studies		%50
Contribution of midterm studies to course grade		%50
Contribution of final studies to course grade		%50
Total Grade		100

RELATIONSHIPS BETWEEN COURSE LEARNING OUTCOMES AND PROGRAM QUALIFICATIONS

Program Qualifications		Learning Outcomes			
		LO1	**LO2**	**LO3**	**LO4**
1.	Accesses, interprets, and applies advanced and original knowledge in the field of physiotherapy and rehabilitation.	**5**			
2.	Conducts original research plans that contribute to the field using scientific methods.				
3.	With a commitment to lifelong learning, follows current developments and technologies in the field, develops existing methods and techniques, and designs and implements new applications.				
4.	Adopts and implements an evidence-based approach in clinical decision-making processes. Acts in accordance with ethical principles in research and practice.	**4**	**5**	**5**	
5.	Establishes effective collaboration in interdisciplinary projects, plans, manages, and executes scientific projects. Effectively shares scientific knowledge on national and international platforms.			**4**	**5**
6.	Performs advanced clinical and laboratory practices in various specialties. Contributes to undergraduate and graduate educational activities and mentors students.		**4**		
7.	Contributes to the development of health policies that improve rehabilitation services and public health.		**4**	**5**	
8.	Is knowledgeable about statistical methods frequently used in health studies. Selects, applies, and interprets appropriate statistical methods.	**4**	**5**		**5**
9.	Contributes to expanding the boundaries of knowledge in the field by publishing at least one scientific article in national and/or international peer-reviewed journals.				

Contribution to the level of proficiency: 1: Low **2:** Low/Moderate **3:** Moderate **4:** High **5:** Excellent