[**Physiotherapy and Rehabilitation**](https://saglikbilimleri.okan.edu.tr/en/page/physiotherapy-and-rehabilitation) **Course Content Master Program**

**Assessment in Physiotherapy and Rehabilitation**

Physiotherapy approaches encompassing the evaluation of quality of life, movement and function in different age, disease and disability groups will be discussed.

**Movement Analysis and Assessment**

Characteristics of different movement analysis in different patients, healthy and disabled people, evaluation and practice of motion.

**Geriatric Rehabilitation**

The physiological changes due to aging, the exercise and environment arrangement programs needed for healthy and handicapped older people for healthy aging will be studied.

**Advanced Biostatistic**  
Advanced biostatistical methods will be taught in addition to the basics of biostatistics. The course will be carried out by presentations and discussions held within the classes following the theoretical lectures.

**Research Methods** **in Physiotherapy**

Principles and methods intended for scientific research. Formularisation of research methods, literature investigation, hypothesis test, techniques for data selection and their analyses.

**Neurological Rehabilitation**

Mechanisms of normal motor control, the pathophysiology of motor control effects in neurological disorders, assessments methods for different neurological diseases and physiotherapy-rehabilitation approaches and the aim of their usage.

**Seminar**

Evaluation and treatment programs in physiotherapy-rehabilitation, new approaches, evidence-based practice, clinical and practical studies will be discussed within the literature.

**Advanced Therapeutic Exercises**

In this course, a variety of diseases and disorders in the method of application of therapeutic exercise , endurance and performance evaluation and treatment of disorders principles are discussed. Course mobility impairment and balance problems in patients with the evaluation and treatment of the principles being taught , posture and movement disorder treatment of patients , postoperative treatment of patients approaches , the treatment of arthritis treatment exercise the use of , fibromyalgia and chronic fatigue syndrome for therapeutic exercises covers such issues . In addition, respiratory assessment , respiratory problematic in patients effects of exercise , scoliosis evaluation and scoliosis exercises, regional training concept and region-specific exercises, amputation of patients who underwent evaluation , rehabilitation, pregnancy, posture assessment, pre and post natal exercises in this course will be revised are other issues .

**Advanced Exercise Physiology**

This course  aims to describe  acute and chronic  effects of  exercise on  cardiovascular, respiratory, musculo-skleletal system and cardiovascular  exercises training, physical fitness, the effects of exercise training on  patients with chronic diseases and elderly people and children.

**Rehabilitation In Musculoskeletal System**

Anatomy and biomechanics of muculoskeleteal system,predisposing mechanisms of minor and major traumas related to musculoskeletal system and injuries following the traumas will be discussed.

**Physiotherapy and Rehabilitation in Cerebrovascular Diseases**  
Hemiplegic patient's motor and sensory assessment can be made and appropriate treatment plan is drawn up, hemiplegic patients, the complications and their physiotherapy and rehabilitation, rehabilitation of hemiplegia on the neurophysiological treatment principles and current treatment methods, hemiplegic patients had upper extremity function and rehabilitation, gait and balance problems, approach to aid-the use of supplies and equipment, activities of daily living in hemiplegic patients and for improving the quality of life issues related to the application to be processed, evidence-based approaches to dealing with this area will be discussed in the relevant literature.

**Mobilization and Manipulation Methods**

Essentials of manipulative therapy; anatomy, physiology and mechanical disturbances of the intervertebral mobile segment;direct and indirect manipulation and mobilization techniques; applications of cervical and lumbar spinal manipulations and treatment protocols will be discussed.

**Rheumatıc Diseases and Rehabilitation**

The classifications, definitions, effects on musculosceletal system, assessment methods of rheumatic disease, and convenient physiotherapy and rehabilitation approaches in rheumatic disease will be investigated.