

## İndirilme Tarihi

16.09.2026 11:28:53

### FZT201 - Orthopedic Diseases - Kozaklı Meslek Yüksekokulu - Terapi ve Rehabilitasyon Bölümü General Info

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#### Objectives of the Course

To improve their knowledge on orthopedic problems and musculoskeletal system diseases that require or not surgery, to gain knowledge and skills about pathology and surgery-specific issues.

#### Course Contents

Common orthopedic problems, fractures, evaluation and treatment of common orthopedic diseases, physical therapy principles in orthopedic diseases. Traumatic, degenerative, hereditary and acquired diseases involving the musculoskeletal system, treatment methods, surgical methods. What are the surgical approaches applied in the field of orthopedics? , Part part orthopedic diseases of the body

#### Recommended or Required Reading

bilgisayar,projeksiyon Fizyoterapi ve rehabilitasyon Cilt 2 A.Karaduman

#### Planned Learning Activities and Teaching Methods

#### Lecture Question Answer

#### Recommended Optional Programme Components

Does not exist.

#### Instructor's Assistants

Lecturer Mustafa Güven

#### Presentation Of Course

face-to-face education

#### Dersi Veren Öğretim Elemanları

Inst. Mustafa Güven Dr. Öğr. Üyesi Muhammet Özalp

### Program Outcomes

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1. can be able to describe general orthopaedic problems
2. can explain musculoskeletal system injuries and degenerative joint diseases and knows related complications of these problems
3. can learns about treatment methods and planning in orthopedic diseases.

| Order | PreparationInfo                                                    | Laboratory | TeachingMethods            | Theoretical                                                | Practise |
|-------|--------------------------------------------------------------------|------------|----------------------------|------------------------------------------------------------|----------|
| 1     | Lecture Notes PDF                                                  |            | Anlatım Soru<br>Cevap      | What is Orthopedics? General Concepts                      |          |
| 2     | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp. 249–261 |            | Lecture Question<br>Answer | Approach to the Patient with Fracture and Fracture Healing |          |
| 3     | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp. 1-27    |            | Lecture Question<br>Answer | Cervical region diseases                                   |          |
| 4     | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp. 63-85   |            | Lecture Question<br>Answer | Shoulder diseases                                          |          |
| 5     | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp. 63-85   |            | Lecture Question<br>Answer | Shoulder diseases                                          |          |
| 6     | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp. 85-109  |            | Lecture Question<br>Answer | Elbow and hand injuries                                    |          |
| 7     | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp.27-63    |            | Lecture Question<br>Answer | Lumbar and thoracic region diseases                        |          |
| 9     | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp.163-191  |            | Lecture Question<br>Answer | hip disorders                                              |          |
| 10    | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp.         |            | Lecture Question<br>Answer | Knee Diseases                                              |          |
| 11    | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp.         |            | Lecture Question<br>Answer | Knee Diseases                                              |          |
| 12    | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp.215-233  |            | Lecture Question<br>Answer | Foot and ankle pathologies                                 |          |
| 13    | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp.295-329  |            | Lecture Question<br>Answer | Joint arthroplasties, endoprotheses shoulder and hip       |          |
| 14    | Physiotherapy and Rehabilitation Volume 2 A. Karaduman pp.295-329  |            | Lecture Question<br>Answer | Joint arthroplasties, endoprotheses shoulder and hip       |          |
| 15    | All lecture notes                                                  |            | Final exam<br>preparation  | Final exam preparation                                     |          |

## Assesments

| Activities | Weight (%) |
|------------|------------|
| Ara Sınav  | 40,00      |
| Final      | 60,00      |

FZT211 - PHYSIOTHERAPY PRACTISE AND PRINCIPLES I - Kozaklı Meslek Yüksekokulu - Terapi ve Rehabilitasyon Bölümü  
General Info

Objectives of the Course

Review of special evaluation and treatment approaches of physiotherapy and rehabilitation and applied hand-on clinical practice in various fields (physical therapy and rehabilitation, orthobedy, neurology-neurosurgery, pediatric neurology, thorax surgery, cardiology and cardiovascular surgery, reanimation therapy, rheumatology, hand surgery, sports health).

Course Contents

measurement and treatment of physical therapy and rehabilitation, orthobedy, neurology-neurosurgery, pediatric neurology, thorax surgery, cardiology and cardiovascular surgery, reanimation therapy, rheumatology, hand surgery, sports health

Recommended or Required Reading

Articles and theses about Physiotherapy  
Basic Physiotherapy Rehabilitation Fatih Erbahçeci Hippocrates Bookstore Physiotherapy and Rehabilitation Basic Practices and Treatment Principles, Prof. Dr. Filiz Can History and Professional Development of Physiotherapy Basic Principles and Applications of Physiotherapy Biomechanical principles Thermal and electrotherapy methods Hydrotherapy and massage techniques Exercise and proprioceptive neuromuscular facilitation methods Clinical Evaluation in Physiotherapy Gait and posture analysis Musculoskeletal and neurological system evaluation Orthotic and prosthetic evaluations Pediatric and geriatric patient evaluation Clinical Practices and Treatment Principles Musculoskeletal system problems Neurological rehabilitation Cardiac and pulmonary rehabilitation Rehabilitation in amputee patients Physiotherapy in orthosis and prosthesis applications Pelvic floor dysfunctions Physiotherapy approaches in disasters will be discussed respectively.

Planned Learning Activities and Teaching Methods

internship practical training

Recommended Optional Programme Components

Continuing the internship is important.

Instructor's Assistants

Öğr. Gör. Bayram Can Doğan Öğr. Gör. Dr. Muhammet Özalp Öğr. Gör. Mine Arslan

Presentation Of Course

The course is given to students of the Department of Therapy and Rehabilitation with practical training for 2 hours a week as an internship for a year.

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Muhammet Özalp Inst. Bayram Can Doğan Inst. Mine Arslan Karslı

Program Outcomes

1. Know the purpose of physiotherapy and apply the principles of physiotherapy.
2. May provide appropriate communication with other health professionals and patients.
3. can provide correct communication with patients.
4. Physiotherapy applications in musculoskeletal diseases and provide the correct communication with patients.
5. Physiotherapy can be applied in neurological diseases and correct communication can be provided with patients.
6. Can perform physiotherapy applications in pediatric diseases.
7. They can perform physiotherapy applications in sports-related illnesses.

Weekly Contents

| Order | PreparationInfo | Laboratory | TeachingMethods                                                                                                            | Theoretical                                                                                                      | Practise                                               |
|-------|-----------------|------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1     |                 |            | Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer | Physiotherapy applications in pediatric diseases<br>Physiotherapy applications in pediatric diseases             | Physiotherapy applications in pediatric diseases       |
| 2     |                 |            | Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer | Physiotherapy applications in pediatric diseases<br>Physiotherapy applications in pediatric diseases             | Physiotherapy applications in pediatric diseases       |
| 3     |                 |            | Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer | Physiotherapy applications in pediatric diseases<br>Physiotherapy applications in pediatric diseases             | Physiotherapy applications in pediatric diseases       |
| 4     |                 |            | Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer | Physiotherapy applications in pediatric diseases<br>Physiotherapy applications in pediatric diseases             | Physiotherapy applications in pediatric diseases       |
| 5     |                 |            | Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer | Physiotherapy applications in musculoskeletal diseases<br>Physiotherapy applications in musculoskeletal diseases | Physiotherapy applications in musculoskeletal diseases |
| 6     |                 |            | Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer | Physiotherapy applications in musculoskeletal diseases<br>Physiotherapy applications in musculoskeletal diseases | Physiotherapy applications in musculoskeletal diseases |
| 7     |                 |            | Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer<br>Practice Discussion<br>Question-answer | Physiotherapy applications in musculoskeletal diseases<br>Physiotherapy applications in musculoskeletal diseases | Physiotherapy applications in musculoskeletal diseases |

## Workload

## Assessments

Terapi ve Rehabilitasyon Bölümü / Fizyoterapi X Learning Outcome Relation[illegible]

Table :

|                  |                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P.O. 1 :</b>  | Have enough educational background in health.                                                                                                                     |
| <b>P.O. 2 :</b>  | Provides evidence-based solutions.                                                                                                                                |
| <b>P.O. 3 :</b>  | They possess the ability to independently evaluate professional problems and issues with an analytical and critical approach and to propose solutions.            |
| <b>P.O. 4 :</b>  | They acquire fundamental, up-to-date, and practical knowledge related to their profession.                                                                        |
| <b>P.O. 5 :</b>  | Gain practice skills.                                                                                                                                             |
| <b>P.O. 6 :</b>  | Selects appropriate therapy agents and tools to be used in rehabilitation.                                                                                        |
| <b>P.O. 7 :</b>  | Have a command in specific problems in physiotherapy.                                                                                                             |
| <b>P.O. 8 :</b>  | Have command in communication skills usage in order to communicate efficiently.                                                                                   |
| <b>P.O. 9 :</b>  | They have awareness of career management and lifelong learning issues.                                                                                            |
| <b>P.O. 10 :</b> | Have the consciousness of professional, social and universal ethics and responsibilities.                                                                         |
| <b>P.O. 11 :</b> | Work cooperatively in a team.                                                                                                                                     |
| <b>P.O. 12 :</b> | Has the ability to work independently.                                                                                                                            |
| <b>P.O. 13 :</b> | Define the basic concepts and terms related to rehabilitation.                                                                                                    |
| <b>P.O. 14 :</b> | Knows basic anatomy and physiology terms.                                                                                                                         |
| <b>P.O. 15 :</b> | Communicate properly in verbal and in written form.                                                                                                               |
| <b>P.O. 16 :</b> | They use a foreign language to keep up with developments in their field and communicate with colleagues.                                                          |
| <b>P.O. 17 :</b> | Knows learning and special education issues.                                                                                                                      |
| <b>P.O. 18 :</b> | They use information technologies (software, programs, animation, etc.) effectively in his/her profession.                                                        |
| <b>P.O. 19 :</b> | As a team member, they take responsibility for solving complex and unforeseen problems encountered in applications related to their field.                        |
| <b>P.O. 20 :</b> | Explains the basic concepts of Atatürk's principles and the history of the revolution.                                                                            |
| <b>P.O. 21 :</b> | They gain knowledge about occupational health and safety, environmental awareness, and quality processes.                                                         |
| <b>P.O. 22 :</b> | Explains the interaction of our people with the social environment with its basics.                                                                               |
| <b>P.O. 23 :</b> | It uses development and personality theories to explain human behavior.                                                                                           |
| <b>P.O. 24 :</b> | they possesses social, scientific, cultural, and ethical values in the stages of data collection, application, and dissemination of results related to its field. |
| <b>P.O. 25 :</b> | Recognizes the problems encountered in the field of nutrition.                                                                                                    |
| <b>P.O. 26 :</b> | Have a sufficient knowledge and skills in human resources management and business life.                                                                           |
| <b>P.O. 27 :</b> | Have a basic business knowledge in the field of health.                                                                                                           |
| <b>P.O. 28 :</b> | Learns the basic quality concepts, the course of quality, its dimensions and uncertainties.                                                                       |
| <b>P.O. 29 :</b> | Can define basic physics concepts.                                                                                                                                |
| <b>P.O. 30 :</b> | Comprehends adequate infrastructure and terminology in home patient care.                                                                                         |
| <b>P.O. 31 :</b> | Gains knowledge about nutrition principles and food science and applies them in the field.                                                                        |
| <b>P.O. 32 :</b> | Biostatistics basic principles.                                                                                                                                   |
| <b>P.O. 33 :</b> | can determine the conditions that cause functional disorders, the extent of functional disorders and their effects on people's lives.                             |
| <b>P.O. 34 :</b> | Knows the factors affecting human behavior.                                                                                                                       |
| <b>P.O. 35 :</b> | Knows the psychological and sociological factors of human and group behavior.                                                                                     |
| <b>P.O. 36 :</b> | Can perform massage applications.                                                                                                                                 |
| <b>P.O. 37 :</b> | Can apply different massage techniques on the body.                                                                                                               |
| <b>P.O. 38 :</b> | They continued their sports competitions.                                                                                                                         |
| <b>P.O. 39 :</b> | Explains the causes of sports injuries.                                                                                                                           |
| <b>P.O. 40 :</b> | Distinguishes sports injuries that may occur according to sports branches.                                                                                        |
| <b>P.O. 41 :</b> | They follow and effectively utilize current developments and practices in their profession.                                                                       |
| <b>L.O. 1 :</b>  | Know the purpose of physiotherapy and apply the principles of physiotherapy.                                                                                      |
| <b>L.O. 2 :</b>  | May provide appropriate communication with other health professionals and patients.                                                                               |
| <b>L.O. 3 :</b>  | can provide correct communication with patients.                                                                                                                  |
| <b>L.O. 4 :</b>  | Physiotherapy applications in musculoskeletal diseases and provide the correct communication with patients.                                                       |
| <b>L.O. 5 :</b>  | Physiotherapy can be applied in neurological diseases and correct communication can be provided with patients.                                                    |
| <b>L.O. 6 :</b>  | Can perform physiotherapy applications in pediatric diseases.                                                                                                     |
| <b>L.O. 7 :</b>  | They can perform physiotherapy applications in sports-related illnesses.                                                                                          |

FZT226 - Evidence Based Physiotherapy - Kozaklı Meslek Yüksekokulu - Terapi ve Rehabilitasyon Bölümü  
General Info

Objectives of the Course

Have knowledge about evidence-based application in physiotherapy, classify and analysis applications in order to evadance level.

Course Contents

To have know and discuss about evidence-based applications in physiotherapy

Recommended or Required Reading

Alain-Yvan Belanger " Evidence-Based Electrotherapy".Yakut E (Çeviri). Kanıta Dayalı Elektroterapi. Pelikan Yayınları, 2008. Theses in the field of electrotherapy, hydrotherapy and balneotherapy at the national thesis center will be examined. Bilgisayar, projeksiyon

Planned Learning Activities and Teaching Methods

Presentation, question and answer, discussion

Recommended Optional Programme Components

Students must come to the practical course in appropriate attire.

Instructor's Assistants

muhammet özalp

Presentation Of Course

face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Muhammet Özalp

Program Outcomes

1. Describes evidence-based electrotherapy applications in orthopedic diseases.
2. Describes evidence-based electrotherapy applications in neurological diseases.
3. Know evidence-based applications in the field of physiotherapy
4. Describe evidence-based electrotherapy applications in rheumatological diseases.

Weekly Contents

| Order | PreparationInfo                                                                                                                                                                                                                                                                        | Laboratory | TeachingMethods                                                                                                          | Theoretical                                                                                                                                                                                                                                                                                                                                                                                | Pr |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 1     | <a href="https://www.researchgate.net/publication/354543463_Elektroterapide_Kanita_Dayali_Uygulamalar">https://www.researchgate.net/publication/354543463_Elektroterapide_Kanita_Dayali_Uygulamalar</a>                                                                                |            | Presentation, question and answer, discussion                                                                            | Evidence-Based Applications in Electrotherapy                                                                                                                                                                                                                                                                                                                                              |    |
| 2     | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | COMPARISON OF THE EFFECTIVENESS OF REPETITIVE PERIPHERAL MAGNETIC STIMULATION AND TENS APPLICATION ON DISEASE SYMPTOMS AND FUNCTIONALITY IN PATIENTS WITH UPPER TRAPEZIAL MYOFASCIAL PAIN SYNDROME<br>Comparison of the effects of tens and interference current treatments on central sensitization in patients with knee osteoarthritis.                                                 |    |
| 3     | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | Comparison of vacuum interference current therapy and classical TENS current therapy in patients with chronic low back pain<br>Comparison of the effectiveness of high intensity laser therapy (HILT), extracorporeal shock wave therapy (ESWT), and transcutaneous electrical nerve stimulation therapy (TENS) in the treatment of carpal tunnel syndrome                                 |    |
| 4     | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | Comparison of the effectiveness of conventional ultrasound and high-power pain-limit ultrasound (static ultrasound) in patients with frozen shoulder<br>Evaluation of the effect of radial extracorporeal shock wave and kinesiological taping treatments on quality of life, hand function and median nerve thickness measured by ultrasonography in patients with carpal tunnel syndrome |    |

| Order | PreparationInfo                                                                                                                                                                                                                                                                        | Laboratory | TeachingMethods                                                                                                          | Theoretical                                                                                                                                                                                                                                                                                                                     | Pr. |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 5     | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | Assesment of the effectiveness of splinting and pulsed ultrasound or continuous ultrasound therapies added on the splinting by ultrasonographic imaging in carpal tunnel syndrome<br>Comparison between parafin-ultrasound in water-exercise cure and fluidotherapy-ultrasound in water-exercise cure in carpal tunnel syndrome |     |
| 6     | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | Comparison of the effects of interferential current and lumbal mobilization on primary dysmenorrhea<br>Comparison of the effectiveness of interference current and neurodynamic exercises on pain and median nerve EMG parameters in carpal tunnel syndrome patients                                                            |     |
| 7     | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | Comparison of pulsed shortwave diathermy and interference current applications in patients with knee osteoarthritis<br>Comparison of the efficacy of DRY needling and balneotherapy in the treatment of myofascial pain syndrome                                                                                                |     |
| 8     |                                                                                                                                                                                                                                                                                        |            |                                                                                                                          | Exam                                                                                                                                                                                                                                                                                                                            |     |
| 9     | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Anlatım, soru cevap, tartışma, örnek vaka<br>Presentation, question and answer, discussion, case report                  | Evaluation of the additive effects of balneotherapy to early physical therapy in subacute supraspinatus tendinitis<br>Comparison of the effects of combined balneological therapy (hydrotherapy+peloidotherapy) and peloidotherapy only in patients with knee osteoarthritis, retrospective study                               |     |
| 10    | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Anlatım, soru cevap, tartışma, örnek vaka<br>Presentation, question and answer, discussion, case report                  | Comparison of the efficiency of peloidotherapy and combined balneological treatment (hydrotherapy and peloidotherapy) in patients with low back pain, retrospective study<br>Comparison of effectiveness of extracorporeal shock wave therapy (ESWT) and peloidotherapy in patients with plantar fasciitis                      |     |
| 11    | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | Comparison of peloid and paraffin treatment effectiveness in patients with primary hand osteoarthritis<br>Comparison of the effects of mechanical traction and manual traction on pain, eyebrow tone and functionality in persons with cervicogenic headache                                                                    |     |
| 12    | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | Clinical, electrophysiological and ultrasonographic comparison of steroid iontophoresis and ESWT treatment in carpal tunnel syndrome<br>The comparison of the effectiveness of iontophoresis, phonophoresis and low level laser application among the cases with lateral epicondylitis                                          |     |

| Order | PreparationInfo                                                                                                                                                                                                                                                                        | Laboratory | TeachingMethods                                                                                                          | Theoretical                                                                                                                                                                                                                                                                                                                                                                                                    | Pr |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 13    | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a><br><a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a> |            | Presentation, question and answer, discussion, case report<br>Presentation, question and answer, discussion, case report | The effect of application of iontophoresis and phonophoresis on pain, functional level and proprioceptive sense in the treatment of subacromial impingement syndrome<br>Comparison between the effects of Russian current and high voltage pulsed galvanic current therapy for M. Quadriceps femoris on the muscle strength, the functional status and the quality of life in patient with knee osteoarthritis |    |
| 14    | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a>                                                                                                                                              |            | Presentation, question and answer, discussion, case report                                                               | Effectiveness of taping and high voltage pulsed galvanic stimulation on patellofemoral pain syndrome                                                                                                                                                                                                                                                                                                           |    |
| 15    | <a href="https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp">https://tez.yok.gov.tr/UlusalTezMerkezi/tezSorguSonucYeni.jsp</a>                                                                                                                                              |            | Presentation, question and answer, discussion, case report                                                               | Comparison of efficacy of conventional and acupuncture-like transcutaneous electrical nerve stimulation (TENS) in patients with knee osteoarthritis                                                                                                                                                                                                                                                            |    |

#### Workload

| Activities         | Number | PLEASE SELECT TWO DISTINCT LANGUAGES |
|--------------------|--------|--------------------------------------|
| Ara Sınav Hazırlık | 7      | 2,00                                 |
| Araştırma Sunumu   | 14     | 2,00                                 |
| Tartışmalı Ders    | 2      | 14,00                                |

#### Assesments

| Activities | Weight (%) |
|------------|------------|
| Ara Sınav  | 40,00      |
| Final      | 60,00      |

#### Terapi ve Rehabilitasyon Bölümü / Fizyoterapi X Learning Outcome Relation

|        | P.O. 1 | P.O. 2 | P.O. 3 | P.O. 4 | P.O. 5 | P.O. 6 | P.O. 7 | P.O. 8 | P.O. 9 | P.O. 10 | P.O. 11 | P.O. 12 | P.O. 13 | P.O. 14 | P.O. 15 | P.O. 16 | P.O. 17 | P.O. 18 | P.O. 19 | P.O. 20 | P.O. 21 | P.O. 22 | P.O. 23 | P.O. 24 | P.O. 25 | P.O. 26 | P.O. 27 | P.O. 28 | P.O. 29 | P.O. 30 | P.O. 31 | P.O. 32 | P.O. 33 | P.O. 34 | P.O. 35 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| L.O. 1 | 5      | 5      | 4      | 3      |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 2 | 5      | 5      | 4      | 3      |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 3 | 5      | 5      | 4      | 3      |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 4 | 5      | 5      | 4      | 3      |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

#### Table :

- P.O. 1 :** Have enough educational background in health.
- P.O. 2 :** Provides evidence-based solutions.
- P.O. 3 :** They possess the ability to independently evaluate professional problems and issues with an analytical and critical approach and to propose solutions.
- P.O. 4 :** They acquire fundamental, up-to-date, and practical knowledge related to their profession.
- P.O. 5 :** Gain practice skills.
- P.O. 6 :** Selects appropriate therapy agents and tools to be used in rehabilitation.
- P.O. 7 :** Have a command in specific problems in physiotherapy.
- P.O. 8 :** Have command in communication skills usage in order to communicate efficiently.
- P.O. 9 :** They have awareness of career management and lifelong learning issues.
- P.O. 10 :** Have the consciousness of professional, social and universal ethics and responsibilities.
- P.O. 11 :** Work cooperatively in a team.
- P.O. 12 :** Has the ability to work independently.
- P.O. 13 :** Define the basic concepts and terms related to rehabilitation.
- P.O. 14 :** Knows basic anatomy and physiology terms.
- P.O. 15 :** Communicate properly in verbal and in written form.

- P.O. 16 :** They use a foreign language to keep up with developments in their field and communicate with colleagues.
- P.O. 17 :** Knows learning and special education issues.
- P.O. 18 :** They uses information technologies (software, programs, animation, etc.) effectively in his/her profession.
- P.O. 19 :** As a team member, they take responsibility for solving complex and unforeseen problems encountered in applications related to their field.
- P.O. 20 :** Explains the basic concepts of Atatürk's principles and the history of the revolution.
- P.O. 21 :** They gain knowledge about occupational health and safety, environmental awareness, and quality processes.
- P.O. 22 :** Explains the interaction of our people with the social environment with its basics.
- P.O. 23 :** It uses development and personality theories to explain human behavior.
- P.O. 24 :** they possesses social, scientific, cultural, and ethical values in the stages of data collection, application, and dissemination of results related to its field.
- P.O. 25 :** Recognizes the problems encountered in the field of nutrition.
- P.O. 26 :** Have a sufficient knowledge and skills in human resources management and business life.
- P.O. 27 :** Have a basic business knowledge in the field of health.
- P.O. 28 :** Learns the basic quality concepts, the course of quality, its dimensions and uncertainties.
- P.O. 29 :** Can define basic physics concepts.
- P.O. 30 :** Comprehends adequate infrastructure and terminology in home patient care.
- P.O. 31 :** Gains knowledge about nutrition principles and food science and applies them in the field.
- P.O. 32 :** Biostatistics basic principles.
- P.O. 33 :** can determine the conditions that cause functional disorders, the extent of functional disorders and their effects on people's lives.
- P.O. 34 :** Knows the factors affecting human behavior.
- P.O. 35 :** Knows the psychological and sociological factors of human and group behavior.
- P.O. 36 :** Can perform massage applications.
- P.O. 37 :** Can apply different massage techniques on the body.
- P.O. 38 :** They continued their sports competitions.
- P.O. 39 :** Explains the causes of sports injuries.
- P.O. 40 :** Distinguishes sports injuries that may occur according to sports branches.
- P.O. 41 :** They follow and effectively utilize current developments and practices in their profession.
- L.O. 1 :** Describes evidence-based electrotherapy applications in orthopedic diseases.
- L.O. 2 :** Describes evidence-based electrotherapy applications in neurological diseases.
- L.O. 3 :** Know evidence-based applications in the field of physiotherapy
- L.O. 4 :** Describe evidence-based electrotherapy applications in rheumatological diseases.

- - Kozaklı Meslek Yüksekokulu - Terapi ve Rehabilitasyon Bölümü  
General Info

Objectives of the Course

To provide knowledge of electrophysical principles of electrotherapy modalities, tissue responses to modalities, and mechanisms and application techniques of low and medium frequency currents.

Course Contents

The electrophysical mechanisms, physiological responses of nerve and muscle to electrical stimulation, excitability properties of innervated and denervated muscle. To improve knowledge of low, medium and high frequency currents

Recommended or Required Reading

Kaynak 1: Kanıta Dayalı Elektroterapi / Edibe Ünal Kaynak 2: Elektroterapi ve Fiziksel Modaliteler Kanıtlar ve Olgular Eşliğinde / Arzu Razak Özdiñler Kaynak 3: Elektroterapide Temel Prensipler ve Klinik Uygulamalar/Nihal Şimşek, Nuray Kırdı

Planned Learning Activities and Teaching Methods

Presentation, question and answer, discussion, case report

Recommended Optional Programme Components

Students must come to the practical course in appropriate attire

Instructor's Assistants

muhammet özalp

Presentation Of Course

Presentation and practical applications, face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Muhammet Özalp

Program Outcomes

1. Understand the principles of muscle and nerve stimulation.
2. can learn the electrical properties of tissues.
3. Define the principles of muscle and nerve stimulation.
4. Learn electrotherapy terminology
5. Learn healthy muscle stimulation
6. Learn high-frequency currents (HFCs) and explain their concepts

Weekly Contents

| Order | PreparationInfo                                                                                                                                                                                 | Laboratory | TeachingMethods                                 | Theoretical                                                                     | Practise                                              |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------|
| 1     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 1-13                                                                                                    |            | Presentation Q&A                                | History of electrotherapy and electrotherapy terminology                        |                                                       |
| 2     | The instructor will share his/her notes with the students.                                                                                                                                      |            |                                                 | Anatomy for electrotherapy                                                      |                                                       |
| 3     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 13-25                                                                                                   |            |                                                 | Direct current and its modified forms - polarity detection test - iontophoresis | polarity detection test - iontophoresis               |
| 4     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 131-145 Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 127-131 |            | Presentation - Questions and answers - Practice | Galvanic, Faradic, and Sinusoidal currents                                      | Galvanic, Faradic, and Sinusoidal current             |
| 5     |                                                                                                                                                                                                 |            | Presentation - Questions and answers - Practice | TENS Interferential currents                                                    | TENS Interferential currents                          |
| 6     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 61-69 Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 231-243   |            |                                                 | Diadynamic currents Biofeedback                                                 | Diadynamic currents                                   |
| 7     | General review - Practice                                                                                                                                                                       |            |                                                 | General review - Practice                                                       |                                                       |
| 8     |                                                                                                                                                                                                 |            |                                                 | Exam                                                                            |                                                       |
| 9     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 79-85 Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 119-127   |            | Presentation - Question and answer - Practice   | Russian currents, NMES                                                          | Russian currents, NMES                                |
| 10    |                                                                                                                                                                                                 |            | Presentation - Question and answer - Practice   | Ultrasound - High voltage pulsed galvanic stimulation                           | Ultrasound - High voltage pulsed galvanic stimulation |
| 11    | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 221-231                                                                                                 |            | Presentation - Question and answer              | Magnetotherapy                                                                  |                                                       |
| 12    | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 243-251                                                                                                 |            | Presentation - Question and answer              | ESWT - Shock wave therapy                                                       |                                                       |
| 13    | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 165-191                                                                                                 |            | Presentation - Question and answer              | Shortwave diathermy - Microwave diathermy                                       |                                                       |
| 14    | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 263-269                                                                                                 |            | Presentation - Questions and answers            | Evidence-based applications in electrotherapy                                   |                                                       |
| 15    | Final exam preparation: General review                                                                                                                                                          |            | Presentation: Questions and answers             | Final exam preparation: General review                                          |                                                       |

## Workload

| Activities                    | Number | PLEASE SELECT TWO DISTINCT LANGUAGES |
|-------------------------------|--------|--------------------------------------|
| Vize                          | 1      | 7,00                                 |
| Final                         | 14     | 1,00                                 |
| Ders Sonrası Bireysel Çalışma | 2      | 14,00                                |
| Derse Katılım                 | 14     | 1,00                                 |
| Ara Sınav Hazırlık            | 7      | 4,00                                 |
| Final Sınavı Hazırlık         | 7      | 4,00                                 |

## Assesments

| Activities       | Weight (%) |
|------------------|------------|
| Ara Sınav        | 40,00      |
| Final            | 40,00      |
| Performans Ödevi | 20,00      |

## Terapi ve Rehabilitasyon Bölümü / İş ve Uğraşı Terapisi X Learning Outcome Relation

|        | P.O. 1 | P.O. 2 | P.O. 3 | P.O. 4 | P.O. 5 | P.O. 6 | P.O. 7 | P.O. 8 | P.O. 9 | P.O. 10 | P.O. 11 | P.O. 12 | P.O. 13 | P.O. 14 | P.O. 15 | P.O. 16 | P.O. 17 | P.O. 18 | P.O. 19 | P.O. 20 | P.O. 21 | P.O. 22 | P.O. 23 | P.O. 24 | P.O. 25 | P.O. 26 | P.O. 27 | P.O. 28 | P.O. 29 | P.O. 30 | P.O. 31 | P.O. 32 | P.O. 33 | P.O. 34 | P.O. 35 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| L.O. 1 | 3      |        |        |        |        | 5      |        | 3      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 2 | 4      |        |        |        |        | 5      |        | 3      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 3 | 4      |        |        |        |        | 5      |        | 3      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 4 | 4      |        |        |        |        | 5      |        | 3      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 5 | 4      |        |        |        |        | 5      |        | 3      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| L.O. 6 | 4      |        |        |        |        |        |        | 3      |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

## Table :

- P.O. 1 :** Knows basic rehabilitation concepts.
- P.O. 2 :** Knows basic anatomy and physiology concepts.
- P.O. 3 :** Knows basic terms of learning and disability education.
- P.O. 4 :** Applies basic evaluation principles in medical rehabilitation.
- P.O. 5 :** Knows the basic features about occupational therapy.
- P.O. 6 :** Knows physical therapy modalities.
- P.O. 7 :** Allows therapeutic exercises.
- P.O. 8 :** Knows treatment approaches in occupational therapy.
- P.O. 9 :** Knows advanced clinical applications in occupational therapy.
- P.O. 10 :** Develops social, cultural, and personal skills.
- P.O. 11 :** Has the ability to work independently.
- P.O. 12 :** They are willing to work together.
- P.O. 13 :** Be ethical in his/her field and human relations.
- P.O. 14 :** Communicate properly in verbal and in written form.
- P.O. 15 :** Evaluate the information and qualifications gained in the study field critically.
- P.O. 16 :** Manage learning process and learning how to learn.
- P.O. 17 :** Follow developments in the study field by using a foreign language.
- P.O. 18 :** Use information and communication technologies required in the study field.
- P.O. 19 :** Explains the basic concepts of Atatürk's principles and the history of the revolution.
- P.O. 20 :** Reaches a sufficient level of knowledge on environmental protection and occupational safety.
- P.O. 21 :** Have a sufficient knowledge about health.
- P.O. 22 :** Explains the interaction of human behavior with the social environment with its basic dimensions.
- P.O. 23 :** It presents solution-oriented studies for existing problems in society.
- P.O. 24 :** Recognizes the problems encountered in the field of nutrition.
- P.O. 25 :** Have a sufficient knowledge and skills in human resources management and business life.
- P.O. 26 :** Have a basic business knowledge in the field of health.
- P.O. 27 :** Gains perspective on different methods and applications of sub-branches of psychology.
- P.O. 28 :** Shows the ability to act calmly and calmly in stressful situations.
- P.O. 29 :** Knows the beneficial effects of animals on the physical, emotional and mental development of children with special needs.

- P.O. 30 :** Knows animal assisted therapy programs.
- P.O. 31 :** It is sensitive to lifelong learning and self-development.
- P.O. 32 :** Learns basic quality concepts, development, dimensions and elements of quality.
- P.O. 33 :** Defines basic physics concepts.
- P.O. 34 :** Defines the basic concepts about the science of biostatistics.
- P.O. 35 :** Comprehends adequate infrastructure and terminology in home patient care.
- P.O. 36 :** Gains knowledge about nutrition principles and applies them in the field.
- P.O. 37 :** For correct communication, has an idea about communication methods.
- P.O. 38 :** Explains the interaction of human behavior with society with its basic dimensions.
- P.O. 39 :** Knows the factors affecting human behavior.
- P.O. 40 :** Knows the psychological and sociological factors of human and group behavior.
- P.O. 41 :** Uses development and personality theories to explain human behavior.
- L.O. 1 :** Understand the principles of muscle and nerve stimulation.
- L.O. 2 :** can learn the electrical properties of tissues.
- L.O. 3 :** Define the principles of muscle and nerve stimulation.
- L.O. 4 :** Learn electrotherapy terminology
- L.O. 5 :** Learn healthy muscle stimulation
- L.O. 6 :** Learn high-frequency currents (HFCs) and explain their concepts

## İndirilme Tarihi

16.09.2026 11:28:02

### FZT107 - Electrotherapy I - Kozaklı Meslek Yüksekokulu - Terapi ve Rehabilitasyon Bölümü General Info

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#### Objectives of the Course

To provide knowledge of electrophysical principles of electrotherapy modalities, tissue responses to modalities, and mechanisms and application techniques of low and medium frequency currents.

#### Course Contents

The electrophysical mechanisms, physiological responses of nerve and muscle to electrical stimulation, excitability properties of innervated and denervated muscle. To improve knowledge of low and medium frequency currents

#### Recommended or Required Reading

Kaynak 1: Kanıta Dayalı Elektroterapi / Edibe Ünal Kaynak 2: Elektroterapi ve Fiziksel Modaliteler Kanıtlar ve Olgular Eşliğinde / Arzu Razak Özdiñler Kaynak 3: Elektroterapide Temel Prensipler ve Klinik Uygulamalar/Nihal Şimşek, Nuray Kırdı bilgisayar, projeksiyon

#### Planned Learning Activities and Teaching Methods

Presentation, question and answer, discussion, case report

#### Recommended Optional Programme Components

Students must come to the practical course in appropriate attire.

#### Instructor's Assistants

There is no teaching assistant.

#### Presentation Of Course

Presentation and practical applications, face to face

#### Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Muhammet Özalp

### Program Outcomes

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1. Interpret the physiological effects of electrical agents.
2. Applies electrotherapy modalities
3. Diversify electrotherapy approaches.
4. Learn healthy muscle stimulation
5. Learn to apply pain-relieving stimulation
6. Learn electrotherapy terminology
7. Learn the anatomical concepts necessary for electrotherapy

| Order | PreparationInfo                                                                                 | Laboratory | TeachingMethods                 | Theoretical                                                  | Practise                                                        |
|-------|-------------------------------------------------------------------------------------------------|------------|---------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------|
| 1     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı page 1-13     |            | Presentation Q&A                | History of electrotherapy and electrotherapy terminology     |                                                                 |
| 2     |                                                                                                 |            | Presentation Q&A                | Anatomy for electrotherapy                                   |                                                                 |
| 3     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 13-25   |            | Presentation Q&A                | Direct current and its modified forms                        |                                                                 |
| 4     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 15-19   |            | Presentation, Q&A, and practice | Direct current- iontophoresis                                | iontophoresis                                                   |
| 5     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 25-35   |            | Presentation, Q&A, and practice | Electrical stimulation                                       |                                                                 |
| 6     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 131-145 |            | Presentation, Q&A, and practice | Denervated Muscle Stimulation                                | Denervated Muscle Stimulation                                   |
| 7     | Genel tekrar Uygulama-teorik                                                                    |            | Presentation, Q&A, and practice | General review, practice, and theory                         | Genel tekrar Uygulama-teorik                                    |
| 8     |                                                                                                 |            |                                 | Exam                                                         |                                                                 |
| 9     | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 127-131 |            | Presentation, Q&A, and practice | Healthy muscle stimulation                                   | Faradic current                                                 |
| 10    | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 97-109  |            | Presentation, Q&A, and practice | Tens                                                         | Tens                                                            |
| 11    | Elektroterapide Temel Prensipler ve Klinik Uygulamalar. Nihal Şimşek, Nuray Kırdı sayfa 61-69   |            | Presentation, Q&A, and practice | Diadynamic currents                                          | Diadynamic currents                                             |
| 12    |                                                                                                 |            | Presentation, Q&A, and practice | Interfarencial currents                                      | Interfarencial currents                                         |
| 13    | General repetition -Application                                                                 |            |                                 | General repetition - Application                             | TENS - Diadynamic Current                                       |
| 14    | General repetition - Application interference - Faradic current                                 |            | uygulama face to face           | Genel tekrar -Uygulama enterfarensiyel- faradik akım         | General repetition - Application interference - Faradic current |
| 15    | Determining, implementing, and monitoring treatment programs                                    |            |                                 | Determining, implementing, and monitoring treatment programs | Determining, implementing, and monitoring treatment programs    |

## Assesments

| Activities         | Weight (%) |
|--------------------|------------|
| Ara Sınav          | 40,00      |
| Final              | 40,00      |
| Laboratuvar Sınavı | 20,00      |