**T.C. MALTEPE UNIVERSITY FACULTY OF MEDICINE**

**UNDERGRADUATE PROGRAM   
2023-2024 ACADEMIC YEAR**

**EDUCATIONAL INFORMATION PACKAGE**

| **COURSE INFORMATION** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Course Name** | **Physical Therapy and Rehabilitation Clerkship** | | | | **Course Code** | **MED 510** |
| **Phase** | 5 | **Level of the Course** | Undergraduate | | **Language of the Course** | English |
| **Mode of Delivery** | Face to face, E-Learning , hybrid | | | | **Lesson Type** | Compulsory |
| **Practice/Laboratuary Site** | Maltepe University Medical Faculty Hospital, | | | | **Suggested Courses** | None |
| **Prerequisite** | 1. MED 100  2. MED 200  3. MED 300  4. All courses in Phase 4 | | | Concurrent Requirements:  None | | |

| **ECTS** | | | |
| --- | --- | --- | --- |
| **ECTS Credits** | **Theoretical Lecture Hours** | **Practical Hours** | **Course Duration** |
| 4 | 30 | 60 | 3 weeks |

| **COURSE COORDINATORS AND INSTRUCTORS** |
| --- |
| **Course Coordinator, Contact Details and Office Hours:**  Selcuk Sayılır MD., Assistant Professor, Maltepe University, Faculty of Medicine  [selcuk.sayilir@maltepe.edu.tr](mailto:selcuk.sayilir@maltepe.edu.tr) extension: 2116  **Office Hours** Tuesday: 09:00-17.00   | **Instructors, Contact Details and Office Hours:**  Selcuk Sayılır MD.,Associate Prefossor, Maltepe University, Faculty of Medicine  [selcuk.sayilir@maltepe.edu.tr](mailto:selcuk.sayilir@maltepe.edu.tr) extension: 2116  **Office Hours** Tuesday: 09:00-17.00  Doç. Dr. Erdal DİLEKÇİ, Associate Prefossor, Maltepe University, Faculty of Medicine  [erdal.dilekci@maltepe.edu.tr](mailto:erdal.dilekci@maltepe.edu.tr):  **Office Hours** Tuesday: 09:00-17.00 | | --- | |

| **GENERAL OBJECTIVE AND CATEGORY OF THE COURSE** |
| --- |
| Critically assessing the concept of rehabilitation from the diagnosis of the illness to the organization of the necessary treatment together and grasping the importance of this process, not only in treating rheumatological diseases, but also in cases of ceasing the limitations born out of the orthopedical and neurologic diseases from becoming lasting.   | **COURSE CATEGORY** | | | --- | --- | | 1. Basic vocational course | **x** | | 1. Specialization / Field Course |  | | 1. Support lectures |  | | 1. Transferable skill courses |  | | 1. Humanities, Communication and Management skill courses |  | |

| **COURSE LEARNING OUTCOMES, SUB-SKILLS and COMPETENCIES** |
| --- |
| **Students completing this course;**   | **Sequence No.** | **Learning Output / Sub - Skills / Competencies** | **Education method** | **MR Method** | | --- | --- | --- | --- | | **1** | The students will be able to deduce the story of the patient and conduct the muscle-skeleton examination within the fundamental principles | EM2, EM5 | MR1,MR3 | | **2** | The students will be able to describe the normal functions of the muscle and skeleton system | EM2, EM5 | MR1,MR3 | | **3** | The students will be able to explain the pathogenesis and clinical diagnostic properties of diseases | EM2, EM5 | MR1,MR3 | | **4** | The students will be able to conduct the primary treatment of frequently found major diseases in the society through methods based on scientific data. | EM2, EM5,  EM9 | MR1,MR3 | | **5** | The students will be able to proceed with the fundamental medical responses regarding the diagnosis and treatment of diseases. | EM2, EM5 | MR1,MR3 | |

| **GENERAL CO** **Narrative**  **Portfolio preparation and/or presentation**  **Practice MPETENCIES:** |
| --- |
| 1. Productive 2. Rational 3. Creative 4. Ethical 5. Respectful to differences 6. Sensitive to social issues 7. able to use own language effectively 8. Sensitive to environment 9. Able to use a foreign language effectively 10. Able to adapt to different social roles in various situations 11. Able to work as a team member 12. Able to use time effectively 13. Having a critical mind |

| **COURSE CONTENTS** |
| --- |
| Rehabilitation can be described as the process that maximizes the physical, mental, social, professional and educational capabilities of the individual. It is a dynamic process where all branches of clinical medicine are widely making use.  The aim in rehabilitation services is towards gaining the optimal function in the face of residual disability. Rehabilitation shall not be considered as an independent phase that follows diagnosis and treatment. It is part of the larger picture of medical treatment along with acute care, gaining reactivation and reaccomodation. Comprehensive and integrated rehabilitation will make it possible for the patient to shorten the period spent staying in the hospital, increase living quality and independency, while enabling a quick return to daily work.  The physical medicine aspect of this field of specialty is associated with the diagnosis and treatment of cervical or lumbosacral radiculopathies, compression and trap neuropathies, soft tissue pains, and acute chronic pains like back, hip, knee, foot-foot ankle aches. The PT specialists who are known to be authorities in the diagnosis and treatment of muscle-skeleton system diseases shall maintain a full understanding of the indications and counter-indications of the use of manual medicine.  **Examination techniques**  Medical story taking and physical examinatıon  Hip diseases and treatments  Back diseases and treatments  Neck and shoulder diseases and treatments  Approach to a hemiplegic patient  Osteoporosis: medical and physical treatment  Approach to a paraplegic patient  Fibromyalgia / knee joint soft tissue diseases  Rheumatologic diseases: medical and physical treatment |

| **COURSE TEXTBOOKS AND SUPPLEMENTARY READINGS** |
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| **Textbooks**  Medical Rehabilitation, Physical Medicine and Rehabilitation, Physical Medicine and Rehabilitation handbook  **Additional Reading:**  Physical Medicine and Rehabilitation |

| **COURSE ASSESSMENT AND EVALUATION SYSTEM** |
| --- |
| | **Studies during the year** | **Percent grade** | | --- | --- | | **Clerkship Examination** | **100%** | | **Structured Oral Examination** | **%0** | | **ICE (İş Başı Değerlendirme)** | %0 | | **OSCE (Structured Subjective Clinical Examination)** | %0 | | **Attendance** | %0 | | **Laboratory** | %0 | | **Clinical Practice** | %0 | | **Field study** | %0 | | **Lesson Specific Internship** (if there is) | %0 | | **Homework** | %0 | | **Presentation** | %0 | | **Project** | %0 | | **Seminar** | %0 | | **Problem Based Learning** | %0 | | **Others** | %0 | | **TOTAL** | **100** |   **NOTES:**  Assessment and Evaluation System is organized according to T.C. Maltepe University Faculty of Medicine Education and Training Regulations. |

| **ECTS STUDENT WORKLOAD TABLE** |
| --- |
| | **Activities** | **Number** | **Duration**  **(hours)** | **Total work load** | | --- | --- | --- | --- | | **Lectures** | **30** | **1** | **30** | | **Laboratory** | **-** | **-** | **-** | | **Practice** | **60** | **1** | **60** | | **Lesson specific internship** (if there is) | **-** | **-** | **-** | | **Field study** | **-** | **-** | **-** | | **Lesson study time out of class** (pre work, strengthen, etc) | **-** | **-** | **-** | | **Presentation / Preparing seminar** | **1** | **6** | **6** | | **Project** | **-** | **-** | **-** | | **Homework** | **-** | **-** | **-** | | **İnterval examinations** | **-** | **-** | **-** | | **Clerkship Examination** | **1** | **4** | **4** | | **Total work load** | | | **100** | |

| **RELATIONSHIP BETWEEN PHYSICAL THERAPY AND REHABILITATION CLERKSHIP   LEARNING OUTCOMES AND MEDICAL EDUCATION PROGRAMME KEY LEARNING OUTCOMES** |
| --- |
| | **No** | **Program Competencies/ Outcomes** | **Level of Contribution[[1]](#footnote-0)\*** | | | | | | --- | --- | --- | --- | --- | --- | --- | | **1** | **2** | **3** | **4** | **5** | | **1** | Able to explain the normal structure and functions of the organism. |  |  |  |  | **x** | | **2** | Able to explain the pathogenesis, clinical and diagnostic features of psychiatric disorders |  |  |  |  | **x** | | **3** | Able to take history and perform mental status examination. |  |  |  |  | **x** | | **4** | Able to perform first step interventions and refer and transfer cases in life threatening emergency situations. |  |  |  |  | **x** | | **5** | Able to perform necessary basic medical interventions for the diahnosis and treatment of mental |  |  |  |  | **x** | | **6** | Able to perform preventive measures and forensic practices. |  | **x** |  |  |  | | **7** | Having sufficient knowledge about the structure and process of the National Health System. |  | **x** |  |  |  | | **8** | Able to define legal responsibilities and ethical principles. |  |  |  | **x** |  | | **9** | Able to perform first step care of most prevalent disorders in the community with effective evidence based medical methods. |  |  |  | **x** |  | | **10** | Able to organize and implement scientific meetings and projects | **x** |  |  |  |  | | **11** | Able to use a major foreign language sufficient enough for follow up of literature and update of medical knowledge; able to use computer and statistical skills for the evaluation of scientific studies. | **x** |  |  |  |  | |

| **PHASE 5 MED 510 PHYSICAL THERAPY AND REHABILITATION CLERKSHIP  COURSE LIST AND RANKING** |
| --- |
| | No. | Subject/Competence | Instructor | | --- | --- | --- | | 1 | Medical story taking and physical examinatıon | Dr. Selçuk Sayılır | | 2 | Medical story taking and physical examinatıon | Dr. Selçuk Sayılır | | 3 | Hip diseases and treatments | Dr. Selçuk Sayılır | | 4 | Back diseases and teratment | Dr. Nurdan Kotevoğlu | | 5 | Neck diseases and treatments | Dr. Nurdan Kotevoğlu | | 6 | Shoulder diseases and treatments | Dr. Selçuk Sayılır | | 7 | Approach to a hemiplegic patient | Dr. Selçuk Sayılır | | 8 | Approach to a hemiplegic patient | Dr. Selçuk Sayılır | | 9 | Osteoporosis: medical and physical treatment | Dr. Nurdan Kotevoğlu | | 10 | Approach to a paraplegic patient | Dr. Selçuk Sayılır | | 11 | Approach to a paraplegic patient | Dr. Selçuk Sayılır | | 12 | Fibromyalgia / soft tissue diseases medical and physical treatment | Dr. Nurdan Kotevoğlu | | 13 | Knee joint diseases and treatment | Dr. Selçuk Sayılır | | 14 | Rheumatic diseases medical and physical treatment | Dr. Nurdan Kotevoğlu | | 15 |  |  | | 16 |  |  | |

| **PHASE 5 MED 510 PHYSICAL THERAPY AND REHABILITATION CLERKSHIP SCHEDULE** | | | | | |
| --- | --- | --- | --- | --- | --- |
| 1. Week | | | | | |
| Days | Monday | Tuesday | Wednesday | Thursday | Friday |
| 8.30-9.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
| 9.30-10.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
| 10.30-11.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
| 11.30-12.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
| 12.30-13.30 | Lunch Hpur | Lunch Hpur | Lunch Hpur | Lunch Hpur | Lunch Hpur |
| 13.30-14.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
| 14.30-15.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
| 15.30-16.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
| 16.30-17.30 | Medical story taking and physical examinatıon | Medical story taking and physical examinatıon | Hip diseases and treatments | Back diseases and teratment | Neck diseases and. Treatment |
|  |  |  |  |  |  |
|  | | | | | |
| 2.Week | | | | | |
| 8.30-9.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
| 9.30-10.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
| 10.30-11.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
| 11.30-12.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
| 12.30-13.30 | Lunch Hpur | Lunch Hpur | Lunch Hpur | Lunch Hpur | Lunch Hpur |
| 13.30-14.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
| 14.30-15.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
| 15.30-16.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
| 16.30-17.30 | Shoulder diseases and treatments | Approach to a hemiplegic patient | Approach to a hemiplegic patient | Osteoporosis: medical and physical treatment | Fibromyalgia / soft tissue diseases medical and physical treatment |
|  |  |  |  |  |  |
| 3. Week |  |  |  |  |  |
| 8.30-9.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment | EXAM |
| 9.30-10.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment |  |
| 10.30-11.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment |  |
| 11.30-12.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment |  |
| 12.30-13.30 | Lunch Hpur | Lunch Hpur | Lunch Hpur | Lunch Hpur | Lunch Hpur |
| 13.30-14.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment |  |
| 14.30-15.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment |  |
| 15.30-16.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment |  |
| 16.30-17.30 | Approach to a paraplegic patient | Approach to a paraplegic patient | Knee joint diseases and treatment | Rheumatic diseases medical and physical treatment |  |

NOTE: Prepare this table for each week of your course.

| **EDUCATIONAL METHODS GUIDE** |
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| | **CODE** | **METHOD NAME** | **EXPLANATION** | | --- | --- | --- | | **EM1** | Amphitheatre lesson | These are the courses applied in preclinical education where the whole class is together. | | **EM2** | Class lesson | These are courses applied in small groups during the clinical period. | | **EM3** | Lab application | These are laboratory courses applied in the preclinical period. | | **EM4** | Skill Training App | It is the work that the student does on a model or mannequin before meeting with the real patient, which will be done in the Virtual Clinic or other environment. | | **EM5** | Clinic Education | These are activities that provide clinical competence by applying bedside training with real patients or models under the supervision of trainers. | | **EM6** | Independent Study Hours | These are the periods in the curriculum for the student to repeat what they have learned and to prepare for new lesson sessions. | | **EM7** | Community Based Education Application | Field practices, non-unit professional practices, etc. includes. | | **EM8** | Problem Based Learning | Problem based learning. | | **EM9** | Private Study module | These are applications that will enable the student to gain in-depth knowledge about a subject individually or as a group. | | **EM10** | Scientific Research study | These are applications aimed at improving the scientific research competence of the student. | | **EM11** | Other | If this code is used, the training method should be written in detail. | |

| **MEASUREMENT EVALUATION METHODS GUIDE** |
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| | **CODE** | **METHOD NAME** | **EXPLANATION** | | --- | --- | --- | | **ME1** | Theoretical Exam ( Multiple Elective , Multiple Optional etc Questions containing ) | The committee is the exam used in the final exams. | | **ME2** | Practical exam | It should be used for laboratory applications. | | **ME3** | Classical Verbal |  | | **ME4** | Structured Oral | It is an oral exam in which questions and answers are prepared on a form beforehand. | | **ME5** | OSCE | Objective Structured Clinical Examination | | **ME6** | CORE | Clinical Act Execution Exam | | **ME7** | ICE ( Business head Evaluation ) | It is the evaluation made by the trainer on the student at the bedside or during the practice. | | **ME8** | Other | A statement must be made. | |

1. \*1 lowest, 2 low, 3 fair, 4 high, 5 highest. [↑](#footnote-ref-0)