

**MUĞLA SITKI KOÇMAN UNIVERSITY FACULTY of MEDICINE**

**PHASE V**

**ENGLISH MEDICINE PROGRAM**

**COURSE of**

**ORTHOPEDICS & TRAUMATOLOGY**

**2022/2023 Academic Year**

**COURSE GUIDEBOOK**

**Course Code: MED5018**

**Course Topic Code: MED5-ORT**

**\*This guide has been prepared by the Department of Orthopedics and Traumatology Course Purpose, Target, Outcomes, Training and Education Contents, Methods, Educational Activities, Measurement and Evaluation Techniques, Course Logbook, Program Qualifications Matrix, Matching the Courses with NCEP 2020, Matching the Courses with the Course Objectives and Outcomes, Matching the Course Achievements with Measurement Techniques, Course Notification Form, Vertical/Horizontal Integration Status of Courses and Course Schedules were declared on 15.06.2022.**

**PREFACE**

**Dear Students,**

Welcome to the Orthopedics and Traumatology course program which is an important part of your education.

In this course program, which is going to continue for 3 weeks, we aim to give the basic education of the course program in all aspects of theoretical courses and practical applications. This guide describes what you will learn and perform during your course, the rules you must follow in our clinic, and the working conditions. We wish you all success with the belief that this guide will guide you sufficiently through your course studies.

 **Department of Orthopedics & Traumatology**

**GENERAL INFORMATION on COURSE**

**Course Title :** Orthopedics & Traumatology

**Main Department of Course :** Surgical Sciences

**Department Responsible for Course :** Orthopedics & Traumatology

**Course Code :** MED-5018
**Course Type :** Required

**Duration of the Course :** 3 weeks

**Teaching Method of the Course :** Formal

**ECTS :** 5

**Language :** English

**Head of the department : Prof. Dr. Nevres H AYDOĞAN**

**Teaching Staff :**

|  |  |  |
| --- | --- | --- |
| **Teaching Staff** | **Subject area** | **Theoretical Course duration (Hours)** |
| **Prof. Dr. Nevres H AYDOĞAN** | **Orthopedics & Traumatology** | **2** |
| **Assoc. Prof. Dr. Umut CANBEK** | **Orthopedics & Traumatology** | **6** |
| **Assoc. Prof. Dr. Ulaş AKGÜN** | **Orthopedics & Traumatology** | **6** |
| **Assoc. Prof. Dr. Ahmet İMERCİ** | **Orthopedics & Traumatology** | **5** |
| **Assoc. Prof. Dr. Cem Yalın KILINÇ** | **Orthopedics & Traumatology** | **5** |
| **Assoc. Prof. Dr. Emre GÜLTAÇ** | **Orthopedics & Traumatology** | **6** |
| **Op. Dr. Fatih İlker CAN** | **Orthopedics & Traumatology** | **3** |
| **Op. Dr. İsmail Gökhan ŞAHİN** | **Orthopedics & Traumatology** | **3** |

**Coordinator of the Department Education Program : Prof. Dr. Nevres H AYDOĞAN**

**Coordinator of the Course Education Program :** **Prof. Dr. Nevres H AYDOĞAN**

**Coordinator of the Course Examinations :** **Assoc. Prof. Dr. Ulaş AKGÜN**

**Coordinator of Course Assessment and Evaluation : Assoc. Prof. Dr. Ulaş AKGÜN**

**e-Mail :** nhaydogan@mu.edu.tr

 umutcanbek@mu.edu.tr

 ulasakgun@mu.edu.tr

 ahmetimerci@mu.edu.tr

 cykilinc@mu.edu.tr

 emregultac@mu.edu.tr

**TEACHING METHODS-TECHNIQUES**

**1**. **Theoretical lessons**

**2**. **Learning Centered Teaching**

1. Patient preparation and presentation during clinic visits
2. Patient examination, plaster-splint-wound care-injection applications in outpatient clinics,
3. Minor surgical interventions in the operating room,
4. Presentation of a review article and discussing it as a group,

**3**. **Interactive teaching**

1. Interactive case discussions with images
2. Interactive discussion at bedside visits

**PHYSICAL SPACES**

|  |  |  |
| --- | --- | --- |
| **Teaching Activity** | **Physical Space** | **Explanation** |
| Theoretical lessons | Hospital Building  | 4th Floor Orthopedics Classroom |
| Inpatient bedside practice | Hospital Building | 4th Floor Orthopedics Service |
| Policlinic | Hospital Building | Ground Floor Orthopedics Outpatient Clinic |
| Case analysis | Hospital Building | 4th Floor Orthopedics Classroom |
| Problem-based teaching |  |  |
| Special audit applications |  | 4th Floor Orthopedics Classroom |
| Private field applications |  | Ground Floor Orthopedics Outpatient Clinic |

**RELATED LEGISLATION**

<http://www.tip.mu.edu.tr/tr/ilgili-mevzuat-6641>

**AIM(S) of the COURSE**

|  |  |
| --- | --- |
| **1** | In this course, It is aimed that students gain sufficient knowledge, skills and attitudes to evaluate the signs and symptoms of Orthopedics and Traumatology diseases, which are frequently encountered within the scope of the National CEP, to diagnose in primary care conditions, to create / apply a treatment plan (to gain the skill of plaster-splint) / to monitor, to perform emergency intervention when necessary, and to provide referral to an Orthopedics and Traumatology specialist.  |

**OBJECTIVE(S) of the COURSE**

|  |  |
| --- | --- |
| 1 | To be able to explain the anatomy and physiology of the musculoskeletal system. |
| **2** | To be able to get medical history of the patient's health problems, personal and family history, and musculoskeletal system by communicating well with the patient and their relatives. |
| **3** | To be able to perform a physical examination of the musculoskeletal system. |
| **4** | To be able to evaluate the medical history and physical examination findings of the patient presenting with musculoskeletal system complaints, choosing the diagnostic methods/procedures that will guide the diagnosis and treatment in the appropriate order, to be able to interpret the results of these methods/operations. |
| **5** | To be able to diagnose and provide first respond to musculoskeletal emergency diseases, to be able to refer dispatch when needed. |
| **6** | To be able to explain the appropriate approach in the patient with multiple injuries. |
| **7** | To be able to explain the musculoskeletal system diseases seen in childhood, to be able to perform a developmental hip dysplasia screening examination. |
| **8** | To be able to apply basic medical interventions related to the musculoskeletal system (wrapping bandages, splints, etc.). |
| **9** | To be able to recognize common orthopedic diseases, to explain differential diagnosis algorithms, to be able to explain appropriate treatment planning and referral criteria. |
| **10** | To be able to explain the importance of multidisciplinary approach to musculoskeletal problems. |

**INTENDED LEARNING OUTCOME(S)**

|  |  |
| --- | --- |
| 1 | Can explain the anatomy and physiology of the musculoskeletal system. |
| **2** | Can get medical history of the patient's health problems, personal and family history, and musculoskeletal system by communicating well with the patient and their relatives. |
| **3** | Can perform a physical examination of the musculoskeletal system. |
| **4** | Can evaluate the medical history and physical examination findings of the patient presenting with musculoskeletal system complaints, choosing the diagnostic methods/procedures that will guide the diagnosis and treatment in the appropriate order, can interpret the results of these methods/operations. |
| **5** | Can diagnose and provide first respond to musculoskeletal emergency diseases, can refer dispatch when needed. |
| **6** | Can explain the appropriate approach in the patient with multiple injuries. |
| **7** | Can explain the musculoskeletal system diseases seen in childhood, can perform a developmental hip dysplasia screening examination. |
| **8** | Can apply basic medical interventions related to the musculoskeletal system (wrapping bandages, splints, etc.). |
| **9** | Can recognize common orthopedic diseases, to explain differential diagnosis algorithms, can explain appropriate treatment planning and referral criteria. |
| **10** | Can explain the importance of multidisciplinary approach to musculoskeletal problems. |

**DUTIES AND RESPONSIBILITIES OF STUDENTS**

1. Duration of course is 3 weeks.
2. Students are expected to attend fully for theoretical or practical courses in the designated Classroom and Study Areas during the announced course program hours. According to the regulations, there is an attendance requirement of 70% in theoretical courses and 80% in practical courses in Phase 5.
3. Although there is no directive of the medical faculty regarding dress, all students are expected to perform personal care and dress with a style and care worthy of a physician candidate during all practical and theoretical training hours during the course.
4. It is expected that a white coat will be worn in all practical trainings.
5. Students will work daily rotation in general and local operating rooms, Orthopedics and Traumatology ward and outpatient clinic.
6. In outpatient clinic applications, students is expected to present his / her comments regarding diagnosis and treatment by taking medical history and performing physical examination.
7. In the operating room, students are expected to learn and comply with sterility conditions and patient safety.
8. The candidate doctor, who is in charge of taking patient history and physical examination in the service, is expected to present the patient information, differential diagnosis and the diagnosis of the patient during the next visit.
9. Students are responsible for completing the course logbook for each application during the course.

**RECOMMENDED RESOURCE(S)**

**KEY RESOURCE(S)**

|  |  |
| --- | --- |
| **KEY RESOURCE(S)** | **Matched Course Outcome(s)**  |
| * 1. Miller's Review of Orthopaedics 8th Edition
 | 1,2,3,4,5,6,7,9,10 |
|  |  |
|  |  |

**ADDITIONAL RESOURCE(S)**

|  |  |
| --- | --- |
| **ADDITIONAL RESOURCE(S)** | **Matched Course Outcome(s)** |
| 1. Campbell’s Operative Orthopaedics 13th Edition
 | 1,2,3,4,5,6,7,9,10 |
| 1. Tachdjian's Pediatric Orthopaedics 5th Edition
 | 1,2,3,4,5,6,7,9,10 |
|  |  |

**ASSESMENT and EVALUATION**

**Assessment and Evaluation in the End of Course Evaluation Exam**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment and Evaluation Method** | **Explanation** | **Role in the End of Course Evaluation**  | **% Value for the End of Course Evaluation** |
| **Attendance to Classes** |  | Compulsory |  |
| **Course Logbook** |  | Compulsory |  |
| **Multiple Choice Theoretical Test Exam\*** | Multiple choice questions |  | 50 |
| **Bedside Clinical Practice Exam\*\*** |  |  | 5 |
| **Structured Oral Examination\*\*\*** | Under the supervision of at least two faculty members |  | 45 |
| **Total** |  |  | **100** |

**Availability of Course Logbook, Place of Course Report in Course Assessment and Evaluation Principles**

For the right to take the written exam, the student must be evaluated as “adequate” from the criteria specified in the course report.

**Existence of Attendance Requirement and Its Place in Course Assessment-Evaluation Principles**

It is stated at the beginning of the course that the student who is absent from the courses will not be taken to the written exam.

**The Effect of the Assessment and Evaluation Methods to be Applied on the Success Status at the End of the Course**

In order to be successful in the course, it is required to get at least 60 points at each stage of the course exams. A student whose score is 59 and below in an assessment-evaluation technique is not allowed to participate in the other exam phase.

**1st stage:** . Multiple Choice Theoretical Test

**2nd stage:** Structured Oral Exam

**Assessment and Evaluation in Resit Examination**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment and Evaluation Method**  | **Explanation** | **Role in the End of Course Evaluation** | **% Value at the End of Course Evaluation** |
| **Multiple Choice Theoretical Test Exam\*** | Multiple choice questions |  | 50 |
| **Structured Oral Examination\*\*** | Under the supervision of at least two faculty members |  | 50 |
| **Total** |  |  | **%100** |

**Assessment and Evaluation in Single Course Resit Exam**

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment and Evaluation Method**  | **Explanation** | **Role in the End of Course Evaluation** | **% Value at the End of Course Evaluation** |
| **Multiple Choice Theoretical Test Exam\*** | Multiple choice questions |  | 50 |
| **Structured Oral Examination\*\*** | Under the supervision of at least two faculty members |  | 50 |
| **Total** |  |  | **%100** |

|  |
| --- |
| **COURSE LOGBOOK** |
| **STUDENT'S NAME AND SURNAME :****STUDENT'S SCHOOL NO :** **COURSE PERIOD :** |
| **APPLICATION** | **NCEP Clause** | **TEACHING STAFF****(SIGNATURE)** |
| **DATE** |  |  |
| Wearing sterile medical gloves |  |  |
| Observation of a surgery in the operation room |  |  |
| Wound care of a patient |  |  |
| Performing upper extremity physical examination |  |  |
| Performing lower extremity physical examination |  |  |
| Performing spinal physical examination |  |  |
| Performing a forearm splint |  |  |
| Performing a long upper extremity splint |  |  |
| Performing a short lower extremity splint |  |  |
| Performing a long lower extremity splint |  |  |
| **DECISION: PASS FAIL****Head of Department or Coordinator:****Date:****Signature:** |

|  |
| --- |
| **Faculty of Medicine** **English Medicine Program****Phase V****Orthopedics & Traumatology COURSE****Competence Matrix** |
| **The Name of the Course** | **Po1** | **Po2** | **Po3** | **Po4** | **Po5** | **Po6** | **Po7** | **Po8** | **Po9** | **Po10** | **Po11** | **Po12** | **Po13** |
| **Orthopedics & Traumatology** | **5** | **5** | **5** | **5** | **5** | **5** | **0** | **5** | **0** | **0** | **0** | **0** | **0** |
| **\* Completed according to the following program outcomes. (Score from 0 to 5.)** **PO: Program Outcomes of Faculty of Medicine****PO Link: https://muweb.mu.edu.tr/tr/program-yeterlilikleri-6598?site=tip.mu.edu.tr** |

**TRAINING ACTIVITY AND ASSESMENT AND EVALUATION METHODS MATCHING OF COURSE GAINS**

|  |  |  |
| --- | --- | --- |
| **Intended Learning Outcome** | **TRAINING ACTIVITY MATCHING** | **ASSESMENT AND EVALUATION METHODS MATCHING** |
| 1. Can explain the anatomy and physiology of the musculoskeletal system.
 | CR, C, T | P-L |
| 1. Can get medical history of the patient's health problems, personal and family history, and musculoskeletal system by communicating well with the patient and their relatives.
 | C | P-L |
| 1. Can perform a physical examination of the musculoskeletal system.
 | V, CR, C, T | P-L |
| 1. Can evaluate the medical history and physical examination findings of the patient presenting with musculoskeletal system complaints, choosing the diagnostic methods/procedures that will guide the diagnosis and treatment in the appropriate order, can interpret the results of these methods/operations.
 | V, CR, C, T | P-L |
| 1. Can diagnose and provide first respond to musculoskeletal emergency diseases, can refer dispatch when needed.
 | V, CR, C, T, PR | P-L, T |
| 1. Can explain the appropriate approach in the patient with multiple injuries.
 | P, T | P-L, T |
| 1. Can explain the musculoskeletal system diseases seen in childhood, can perform a developmental hip dysplasia screening examination.
 | V, CR, C, T | P-L, T |
| 1. Can apply basic medical interventions related to the musculoskeletal system (wrapping bandages, splints, etc.).
 | C | P-L |
| 1. Can recognize common orthopedic diseases, to explain differential diagnosis algorithms, can explain appropriate treatment planning and referral criteria.
 | V, CR, C, T, PR | P-L, T |
| 1. Can explain the importance of multidisciplinary approach to musculoskeletal problems.
 | V, CR, C, PR | P-L, T |
| **Abbreviations****Teaching Activity:** Theorical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr)**Assessment Method:** Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE) |

**INFORMATION AND MATCHING TABLE ON THE THEORETICAL AND PRACTICAL COURSES IN THE COURSE TO BE INCLUDED IN THE 2022- 2023 ACADEMIC YEAR COURSE POGRAM**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lecture Code\*** | **Hour** | **Lecture Type** | **Lecture Subject** | **Course Aim Matching** | **Course Learning Outcome Matching** | **Activity Matching\*\*** | **Assessment and Evaluation Method matching \*\*** | **Vertical Integration** | **Horizontal Integration** |
| MED5-ORT001 | 1 | P | Course Introduction-Information Meeting and Forming Groups (A-B-C) | 1 | 10 | PR | P-L |  |  |
| MED5-ORT002 | 1 | T | Orthopedic Terminology and Concepts | 1 | 1 | T | TE |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT003 | 1 | T | Upper Extremity Examination | 1 | 3 | T | TE, OE | Phase 1 Anatomy | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT004 | 1 | T | Spine and Lower Extremity Examination | 1 | 3 | T | TE, OE | Phase 1 Anatomy | Phase 5 Physical Therapy and RehabilitationPhase 5 Brain and Neurosurgery |
| MED5-ORT005 | 1 | T | Introduction to Fractures | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  |  |
| MED5-ORT006 | 1 | T | Fracture Healing | 1 | 5,6,8,9 | T | TE, OE | Phase 2 Physiology |  |
| MED5-ORT007 | 1 | T | Osteoporotic - Pathological Fractures | 1 | 5,6,8,9 | T | TE, OE | Phase 4 Internal Medicine |  |
| MED5-ORT008 | 1 | T | Open Fractures | 1 | 5,6,8,9 | T | TE, OE |  | Phase 5 Plastic and Reconstructive Surgery |
| MED5-ORT009 | 1 | T | Fracture Complications | 1 | 5,6,8,9 | T | TE, OE |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT010 | 1 | T | Compartment Syndrome | 1 | 5,9 | T | TE, OE | Phase 4 General Surgery |  |
| MED5-ORT011 | 1 | T | Spine Problems | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  | Phase 5 Brain and Neurosurgery |
| MED5-ORT012 | 1 | T | Pediatric Fractures | 1 | 2,3,4,5,6,7,8,9 | T | TE, OE |  |  |
| MED5-ORT013 | 1 | T | Congenital Orthopedic Disorders | 1 | 7 | T | TE, OE | Phase 4 Child Health and Diseases |  |
| MED5-ORT014 | 1 | T | Fractures of Hip and Femur | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  |  |
| MED5-ORT015 | 1 | T | Fractures of Knee, Tibia and Ankle | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  |  |
| MED5-ORT016 | 1 | T | Fractures of Shoulder, Elbow and Forearm | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  |  |
| MED5-ORT017 | 1 | T | Fractures of Hand and Wrist | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  | Phase 5 Plastic and Reconstructive Surgery |
| MED5-ORT018 | 1 | T | Approach to Patients with Multiple Trauma | 1 | 6 | T | TE, OE | Phase 4 General Surgery |  |
| MED5-ORT019 | 1 | T | Fractures of Spine and Pelvis | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  | Phase 5 Brain and Neurosurgery |
| MED5-ORT020 | 1 | T | Developmental Dysplasia of Hip | 1 | 7 | T | TE, OE | Phase 4 Child Health and Diseases |  |
| MED5-ORT021 | 1 | T | Pediatric Disorders of Hip | 1 | 7 | T | TE, OE | Phase 4 Child Health and Diseases |  |
| MED5-ORT022 | 1 | T | Osteochondrosis | 1 | 2,3,4,9 | T | TE, OE | Phase 4 Child Health and Diseases |  |
| MED5-ORT023 | 1 | T | Hand Injuries | 1 | 2,3,4,5,6,8,9 | T | TE, OE |  | Phase 5 Plastic and Reconstructive SurgeryPhase 5 Physical Therapy and Rehabilitation |
| MED5-ORT024 | 1 | T | Disorders of Upper Extremity and Hand | 1 | 2,3,4,9 | T | TE, OE |  | Phase 5 Plastic and Reconstructive SurgeryPhase 5 Physical Therapy and Reh. |
| MED5-ORT025 | 1 | T | Disorders of Foot and Ankle | 1 | 2,3,4,9 | T | TE, OE |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT026 | 1 | T | Dislocations | 1 | 2,3,4,5,8,9 | T | TE, OE |  |  |
| MED5-ORT027 | 1 | T | Traumatic Soft Tissue Disorders | 1 | 2,3,4,5,8,9 | T | TE, OE |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT028 | 1 | T | Common Orthopedic Problems in Athletes | 1 | 2,3,4,5,8,9 | T | TE, OE |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT029 | 1 | T | Introduction to Musculoskeletal Tumors | 1 | 2,3,4 | T | TE, OE | Phase 3 Pathology |  |
| MED5-ORT030 | 1 | T | Benign Musculoskeletal Tumors | 1 | 2,3,4 | T | TE, OE | Phase 3 Pathology |  |
| MED5-ORT031 | 1 | T | Malignant Musculoskeletal Tumors | 1 | 2,3,4 | T | TE, OE | Phase 3 Pathology |  |
| MED5-ORT032 | 1 | T | Cartilage Injuries & Disorders | 1 | 2,3,4,9 | T | TE, OE | Phase 2 Physiology | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT033 | 1 | T | Degenerative Joint Diseases | 1 | 2,3,4,9 | T | TE, OE | Phase 3 Pathology | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT034 | 1 | T | Osteonecrosis | 1 | 2,3,4,9 | T | TE, OE | Phase 3 Pathology |  |
| MED5-ORT035 | 1 | T | Musculoskeletal Infectious Diseases | 1 | 2,3,4,9 | T | TE, OE | Phase 3 PathologyPhase 4 Infectious Diseases |  |
| MED5-ORT036 | 1 | T | Spinal Infections | 1 | 2,3,4 | T | TE, OE | Phase 3 PathologyPhase 4 Infectious Diseases |  |
| MED5-ORT037 | 1 | T | Metabolic Bone Disorders | 1 | 2,3,4 | T | TE, OE | Phase 3 PathologyPhase 4 Internal Medicine |  |
| MED5-ORT038 | 1 | P | Practice of Upper Extremity Examination | 1 | 3 | C | P-L |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT039 | 1 | P | Practice of Lower Extremity Examination | 1 | 3 | C | P-L |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT040 | 1 | P | Practice of Spinal Examination | 1 | 3 | C | P-L |  | Phase 5 Brain and NeurosurgeryPhase 5 Physical Therapy and Rehabilitation |
| MED5-ORT041 | 1 | P | Imaging in Orthopedic Trauma | 1 | 4,5 | R | OE |  | Phase 5 Radiology |
| MED5-ORT042 | 1 | P | Orthopedic Braces | 1 | 9 | C | P-L |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT043 | 1 | P | Orthopedic Implants | 1 | 9 | C | P-L |  |  |
| MED5-ORT044 | 1 | P | Plaster and Splint Applications in Orthopedics | 1 | 8 | C | P-L |  |  |
| MED5-ORT045 | 1 | P | Practice of Skeletal Traction Application | 1 | 9 | C | P-L |  |  |
| MED5-ORT046 | 1 | P | Wound Care and Dressing in Orthopedics | 1 | 9 | C | P-L | Phase 4 General Surgery | Phase 5 Plastic and Reconstructive Surgery |
| MED5-ORT047 | 3 | P | Orthopedic Approach in Emergency Department | 1 | 5,6 | C | P-L | Phase 4 General Surgery |  |
| MED5-ORT048 | 1 | P | Practice of Hip Examination in Children | 1 | 7 | C | P-L | Phase 4 Child Health and Diseases |  |
| MED5-ORT049 | 1 | P | Practice of Pavlik Harness Application | 1 | 7 | C | P-L | Phase 4 Child Health and Diseases |  |
| MED5-ORT050 | 1 | P | Practice of Gait Analysis in Children | 1 | 7 | C | P-L | Phase 4 Child Health and Diseases |  |
| MED5-ORT051 | 1 | P | Practice of Meniscus Examination | 1 | 2,3,4,9 | C | P-L |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT052 | 1 | P | Practice of Ligament Examination | 1 | 2,3,4,9 | C | P-L |  | Phase 5 Physical Therapy and Rehabilitation |
| MED5-ORT053 | 1 | P | Imaging in Sports Injuries | 1 | 2,3,4,5,8,9 | R | OE |  | Phase 5 Radiology |
| MED5-ORT054 | 3 | P | K Imaging in Musculoskeletal Tumors | 1 | 2,3,4 | R | OE |  | Phase 5 Radiology |
| MED5-ORT055 | 7 | P | Free Study | 1 | 10 | PR | OE |  |  |
| MED5-ORT056 | 26 | P | Clinical Visit - Case-based Discussion | 1 | 1,2,3,4,9,10 | V, CR, C | OE |  |  |
| MED5-ORT057 | 18 | P | Ward – Outpatient Clinic – Operating Room Practice  | 1 | 1,2,3,4,5,6,7,8,9,10 | C | OE |  |  |
| MED5-ORT058 | 3 | P | Review Article Presentation | 1 | 1,10 | PR | OE |  |  |
| **EXPLANATIONS:****\*** Lecture code will be formed by writing 001, 002,… at the end of the code taken from the “Codes for Phase 5 matrix” section.**\*\*Abbreviations****Teaching Activity:** Theorical lessons (T), Visit (V), Case report (CR), Clinical picture discussion-Outpatient clinic (C), Vocational skills lab (VSL), Radiological evaluation (R), Laboratory evaluation (L), Presentation (Pr)**Assessment Method:** Practical - Logbook (P-L), Oral exam (OE), Theoretical exam (TE)  |