

| MED 671 - COURSE INFORMATION | | | | | |
|--|---------|-----------------|----------|---------|------|
| Course Title | Code | Semester | L+P Hour | Credits | ECTS |
| Physical Medicine and Rehabilitation (Clinical internship) | MED 671 | Phase 6 / 11-12 | | 5 | 5* |

* ECTS credits are the university credits of the courses in Yeditepe University, Faculty of Medicine, Undergraduate Medical Education Program

| GENERAL INFORMATION | |
|--|---|
| This course is for Phase VI students of Yeditepe University Faculty of Medicine. | |
| Prerequisites | Obligatory (main) courses of Phase V should be completed. |
| Coordination Office | Yeditepe University Hospital. |
| Email address for inquiries | goksen.goksenoglu@yeditepe.edu.tr |
| Attendance | Students are required to attend to at least 80% of the classes. |
| Language of Instruction | English |
| Course Level | Second Cycle including First Cycle Degree (One Tier Programme) |
| Course Type | Elective course |
| Course Coordinator | Gökşen Gökşenoğlu, MD. Assoc. Prof. |
| Lecturers/Instructors | Gökşen Gökşenoğlu, MD. Assoc. Prof. |
| Assistants | |
| Goals | The aim of the elective course is to equip the intern with enriched knowledge and skills in the preferred medical specialty. |
| Content | The elective internship is a 1 month rotation for the 6th year medical students which has been chosen by the students from the area elective courses in the curriculum. Like the other rotations, evaluation of student performance will be based on overall clinical performance both in hospital and outpatient clinics, case papers, the attitudes toward patients, participation in seminars and overnight calls, regular attendance at scientific meetings, lectures and case conferences, the level of scientific and practical knowledge and consulting skills. Ratings of students recorded with required projects and will be performed as "passed" or "failed" with an overall evaluation score of 100. |

| COURSE LEARNING OUTCOMES | | | |
|--|---------------------------|------------------|--------------------|
| At the end of this course, student should be able to | Program Learning Outcomes | Teaching Methods | Assessment Methods |
| 1.Explain the management principles of most frequently encountered health conditions (healthy, clinical, public, environmental, forensic, etc.). | 1.1.1,1.1.2,1.1.3,1.1.4 | 1,2,3,12 | A |
| 2.Show/demonstrate clinical skills and attitude required to manage most frequently encountered health conditions (healthy, clinical, public, environmental, forensic, etc.). | 1.1.1,1.1.2,1.1.3,1.1.4 | 1,2,3,12 | A |
| 3. Identify the key areas within the field of PM&R, including musculoskeletal, neurological and pediatric, rehabilitation. | 1.1.1,1.1.2,1.1.3,1.1.4 | 1,2,3,12 | A |
| 4. Gain an understanding of various rehabilitation interventions, such as physical therapy, occupational therapy, and speech therapy. Understand the application and limitations of modalities like electrical stimulation, heat/cold therapies, and ultrasound in managing pain and enhancing recovery. | 1.1.1,1.1.2,1.1.3,1.1.4 | 1,2,3,12 | A |
| 5. Understand the importance of collaboration with a variety of healthcare professionals, including physiatrists, physical therapists, occupational therapists, speech-language pathologists, and nurses. | 2.4.1,2.4.2,2.4.3 | 1,2,3,12 | A |
| 6. Learn how to educate patients and their families about injury prevention, managing chronic conditions, and optimizing rehabilitation outcomes. | 2.5.1,2.5.2,2.5.3 | 1,2,3,12 | A |
| 7. Understand the specialized needs of certain patient populations, such as individuals with spinal cord injuries, stroke, traumatic brain injuries, amputations, and pediatric patients. | 2.3.1,2.3.2 | 1,2,3,12 | A |
| 8. Explore ethical issues in PM&R, such as patient autonomy, informed consent, and access to rehabilitation services | 2.2.1,2.2.2,2.2.3 | 1,2,3,12 | A |
| 9. Understand the importance of evidence-based medicine in PM&R and review current research trends in rehabilitation science | 3.1.1,3.1.2,3.1.3 | 1,2,3,12 | A |
| 10. Gain familiarity with various assistive devices and adaptive equipment used to help patients regain functional independence. | 3.1.4. | 1,2,3,12 | A |

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|---------------------|--|
| Teaching Methods: | 1. Clinical Experience (Learning environments: Inpatient clinic, Outpatient clinic, Operating room, Invasive interventions room, Laboratory, Imaging room, Emergency care unit, Family Healthcare Center, Public Healthcare Center) (Learning activities: Grand round, Patient bedside discussion, Observership, Clinical practice, Laboratory round, Imaging round) |
| Assessment Methods: | A: Internship Evaluation Form (Assessment of Clinical Performance) |

| COURSE CONTENT | | |
|----------------|--|-----------------|
| Week | Topics | Study Materials |
| | 1.Introduction to Physical Medicine and rehabilitation (Overview of Physical Medicine and rehabilitation and its role in healthcare) 2.Basic musculoskeletal system examination 3. Rheumatic diseases, the concept of rehabilitation and basic physical therapy applications. 4. The effective mechanisms of physical therapy agents and their application methods. 5. Important conditions in the field of neurological rehabilitation (hemiplegia, cerebral palsy, spinal cord injury) recognizes and explains the basic approach to treatment methods. 6. Mechanisms of action, indications of drugs commonly used in musculoskeletal system diseases, 7. Identify diseases requiring rehabilitation and list rehabilitation methods. | |

| COURSE MATERIALS | |
|---------------------------------|--|
| Text Books and Reading Material | Walter Frontera (Ed). DeLisa's Physical Medicine and Rehabilitation: Principles and Practice. · 2) Randall L. Braddom (Ed). 3. Sara J Cuccurullo, M,Physical Medicine and Rehabilitation Board Review, Third Edition · |
| Additional Resources | |

| YEDİTEPE UNIVERSITY FACULTY OF MEDICINE | |
|---|---|
| INTERN PHYSICIAN EVALUATION FORM | |
| <i>This form includes evaluation components for intern physicians and is the basis of the passing grade for internship.</i> | |
| Intern's name and surname: | |
| Intern number: | |
| Internship program name: | |
| Dates of start and end for internship program: | |
| 1. Evaluation of Cognitive Competencies <i>* The level of competency should be determined based on participation in educational activities (Title 1 on the Intern Logbook) and the observations of the Faculty Member / Internship Training Supervisor / Head of the Department for the intern.</i> | |
| | *Competency Level |
| 1.1. Clinical reasoning and decision making The stages of decision making process in an evidence based manner; to determine preliminary / differential diagnosis/diagnoses, to order appropriate diagnostic tests, to achieve an appropriate definitive diagnosis and treatment (interventional or not). | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| 1.2. Professional knowledge During the educational activities (case discussions, educational visits, faculty member seminars, intern physician seminars, etc.) to answer the questions, to ask the questions, to start a discussion, to contribute to the discussion, to display an understanding of the subject. | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |
| 1.3. Literature review and seminar presentation Preparation based on evidence of higher scientific strength, presenting the subject in a solid logical reasoning with in a reference to essential check points, mastering the subject, answering the questions asked. | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> |

| | | |
|---|---|--------------------------------|
| Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department | | |
| 2. Evaluation of Competencies for Basic Medical Practice <i>* The level of competency should be determined based on basic medical practice (Title 2 on the Intern Logbook) and the observations of the Faculty Member / Internship Training Supervisor / Head of Department for the intern.</i> | | |
| | * Competency Level | |
| Basic medicine practices based on Intern Logbook | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> | |
| Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department | | |
| 3. Evaluation of Professional Competencies for Medicine | | |
| | * Competency Level | |
| 3.1. Communicating with patients and relatives | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> | |
| 3.2. Compliance in hospital rules (i.e. standard operating procedures, SOPs) | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> | |
| 3.3. Working in a team and collaborating and communicating with team members | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> | |
| 3.4. Performing given tasks | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> | |
| 3.5. Diligence on attendance and participation in scientific activities | Does not meet expectations <input type="checkbox"/> Meets expectations <input type="checkbox"/> Above expectations <input type="checkbox"/> Well above expectations <input type="checkbox"/> | |
| Explanations, opinions and recommendations based on the observations of the Faculty Member / Internship Training Supervisor / Head of the Department | | |
| Evaluated Competencies | Total Score (Over 100) (For each section below, the score below 70 obtained by the Intern is a reason for inadequacy.) | Impact on Internship End Score |
| Cognitive Competencies | Score:.... | 20% |

| Competencies for Basic Medical Practice | Score:.... | 60% | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|--------------------------|-------------|--------------|---------------|----------|----|-----|---------|----|-----|---------|----|-----|---------|----|-----|---------|----|-----|--------|----|--|--------|----|--|
| Professional Competencies for Medicine | Score:.... | 20% | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>*If the competency level for the intern is determined as “does not meet the expectations” in any part of the evaluation form, the intern is considered to be unqualified. In this condition, FF is given as a letter grade.</p> <p>**If the intern physician is deemed inadequate due to absenteeism, FA is given as a letter grade.</p> <p>Internship Evaluation End Score:</p> <p>Letter Grade:.....</p> <table border="1"> <thead> <tr> <th>Score Range</th> <th>Letter Grade</th> <th>Credit Rating</th> </tr> </thead> <tbody> <tr> <td>90 – 100</td> <td>AA</td> <td>4.0</td> </tr> <tr> <td>80 – 89</td> <td>BA</td> <td>3.5</td> </tr> <tr> <td>70 – 79</td> <td>BB</td> <td>3.0</td> </tr> <tr> <td>65 – 69</td> <td>CB</td> <td>2.5</td> </tr> <tr> <td>60 – 64</td> <td>CC</td> <td>2.0</td> </tr> <tr> <td>0 – 59</td> <td>FF</td> <td></td> </tr> <tr> <td>Absent</td> <td>FA</td> <td></td> </tr> </tbody> </table> | | | Score Range | Letter Grade | Credit Rating | 90 – 100 | AA | 4.0 | 80 – 89 | BA | 3.5 | 70 – 79 | BB | 3.0 | 65 – 69 | CB | 2.5 | 60 – 64 | CC | 2.0 | 0 – 59 | FF | | Absent | FA | |
| Score Range | Letter Grade | Credit Rating | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 – 100 | AA | 4.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 – 89 | BA | 3.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 – 79 | BB | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 – 69 | CB | 2.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 – 64 | CC | 2.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 – 59 | FF | | | | | | | | | | | | | | | | | | | | | | | | | |
| Absent | FA | | | | | | | | | | | | | | | | | | | | | | | | | |
| **Attendance | Absence ≤ 20% | Absence > 20% | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |
| Decision | Qualified | Unqualified | | | | | | | | | | | | | | | | | | | | | | | | |
| | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | | |

Date:

Internship Commission: _____

Faculty Member

Faculty Member

Internship Training Supervisor

Head of the Department

| COURSES CONTRIBUTION TO PROGRAM | | | | | |
|---|--------------|---|---|---|---|
| COMPETENCE AREA-1 / Professional Practices | Contribution | | | | |
| COMPETENCE 1.1. Health Service Provider | 1 | 2 | 3 | 4 | 5 |
| Competency 1.1.1. Integrates knowledge, skills, and attitudes acquired from basic and clinical medical sciences, behavioral sciences, and social sciences to provide health services. | | | | x | |
| Competency 1.1.2. Demonstrates a biopsychosocial approach that considers the individual's sociodemographic and sociocultural background without discrimination based on language, religion, race, or gender in patient management. | | | x | | |
| Competency 1.1.3. Prioritizes the protection and improvement of individuals' and community's health in the delivery of healthcare services. | | | | x | |
| Competency 1.1.4. Performs the necessary actions in the direction of maintaining and improving the state of health as considering the individual, social, social and environmental factors affecting health. | | | | x | |
| Competency 1.1.5. Provides health education to healthy/ill individuals and their families, as well as to other healthcare professionals, by recognizing the characteristics, needs, and expectations of the target audience. | | | x | | |
| Competency 1.1.6. Demonstrates a safe, rational, and effective approach in the processes of protection, diagnosis, treatment, follow-up, and rehabilitation in health service delivery. | | | | x | |

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| Competency 1.1.7. Performs interventional and/or non-interventional procedures safely and effectively for the patient in the processes of diagnosis, treatment, follow-up, and rehabilitation. | | | | x | |
| Competency 1.1.8. Provides healthcare services considering patient and employee health and safety. | | | x | | |
| Competency 1.1.9. Considers changes related to the physical and socio-economic environment at both regional and global scales that affect health, as well as changes in the individual characteristics and behaviors of those who seek healthcare services. | | | x | | |
| COMPETENCE AREA-2 / Professional Values and Approaches | Contribution | | | | |
| COMPETENCE 2.1. Adopting Professional Ethics and Principles | 1 | 2 | 3 | 4 | 5 |
| Competency 2.1.1. Considers good medical practices while performing the profession. | | | | x | |
| Competency 2.1.2. Fulfills duties and obligations within the framework of ethical principles, rights, and legal responsibilities required by the profession. | | | x | | |
| Competency 2.1.3. Demonstrates determined behavior in providing high-quality healthcare while considering the patient's integrity. | | | | x | |
| Competency 2.1.4. Evaluates own performance in professional practices by considering own emotions and cognitive characteristics. | | | x | | |
| COMPETENCE 2.2. Health Advocate | | | | x | |
| Competency 2.2.1. Advocates for the improvement of healthcare service delivery by considering the concepts of social accountability and social responsibility in the protection and enhancement of community health. | | | | x | |
| Competency 2.2.2. Plans and implements service delivery, education, and counseling processes related to individual and community health, in collaboration with all stakeholders, for the protection and improvement of health. | | | x | | |
| Competency 2.2.3. Evaluates the impact of health policies and practices on individual and community health indicators and advocates for the improvement of healthcare quality. | | | x | | |
| Competency 2.2.4. Gives importance to protecting and improving own physical, mental, and social health and takes necessary actions for it. | | x | | | |
| COMPETENCE 2.3. Leader-Manager | | | | | |
| Competency 2.3.1. Demonstrates exemplary behavior and leadership within the healthcare team during service delivery. | | | x | | |
| Competency 2.3.2. Utilizes resources in a cost-effective, socially beneficial, and compliant manner with regulations in the planning, implementation, and evaluation processes of healthcare services as the manager in the healthcare institution. | | | | x | |
| COMPETENCE 2.4. Team Member | | | | | |
| Competency 2.4.1. Communicates effectively within the healthcare team and takes on different team roles as necessary. | | | | | x |
| Competency 2.4.2. Displays appropriate behaviors while being aware of the duties and responsibilities of healthcare workers within the healthcare team. | | | | x | |
| Competency 2.4.3. Works collaboratively and effectively with colleagues and other professional groups in professional practice. | | | | x | |
| COMPETENCE 2.5. Communicator | | | | | |
| Competency 2.5.1. Communicates effectively with patients, their families, healthcare professionals, and other occupational groups, institutions and organizations. | | | x | | |
| Competency 2.5.2. Communicates effectively with individuals and groups who require a special approach and have different sociocultural characteristics. | | | x | | |
| Competency 2.5.3. Demonstrates a patient-centered approach that involves the patient in decision-making mechanisms during the diagnosis, treatment, follow-up, and rehabilitation processes. | | | | x | |
| COMPETENCE AREA-3 / Professional and Personal Development | Contribution | | | | |
| COMPETENCE 3.1. Scientific and Analytical Approach | 1 | 2 | 3 | 4 | 5 |
| Competency 3.1.1. Plans and implements scientific research, as necessary, for the population it serves, and utilizes the results obtained, as well as those from other research, for the benefit of the community. | | x | | | |

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| Competency 3.1.2. Accesses and critically evaluates current literature related to their profession. | | | x | | |
| Competency 3.1.3. Applies evidence-based medicine principles in the clinical decision-making process. | | x | | | |
| Competency 3.1.4. Uses information technologies to enhance the effectiveness of healthcare, research, and education activities. | | | x | | |
| COMPETENCE 3.2. Lifelong Learner | | | | | |
| Competency 3.2.1. Manages effectively individual study processes and career development. | | | x | | |
| Competency 3.2.2. Demonstrates skills in acquiring, evaluating, integrating new information with existing knowledge, applying to professional situations, and adapting to changing conditions throughout professional career. | | x | | | |
| Competency 3.2.3. Selects the right learning resources to improve the quality of health care and organizes the learning process. | | | | x | |

| ECTS ALLOCATION | | | |
|-----------------------------|----------|------------------|------------------------|
| Activity | Quantity | Duration (Hours) | Total Workload (Hours) |
| Clinical Experience | 45 | 2 | 90 |
| Clerkship Guide Compilation | 20 | 1 | 20 |
| Independent Learning Hours | 45 | 1 | 45 |
| Assessment | 2 | 2.5 | 5 |
| Total Work Load | | | 160 |
| Total Work Load / 30 (h) | | | 5.3 |
| ECTS Credits | | | 5 |