# Courses – ECTS Credicts

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|  |
| Course Code | Course Name | ECTS | T+P+L | C/E | Language |
| Fall Semester |
| 523303201 | CLINICAL APPLICATION IN PHYSIOTHERAPY REHABILITATION - I | 7,5 | 2+4+0 | COMPULSORY | Turkish |
| 523303202 | SCIENTIFIC RESEARCH AND DEVELOPMENT IN PHYSIOTHERAPY AND REHABILITATION | 7,5 | 3+3+0 | COMPULSORY | Turkish |
| 523301400 | SEMINAR | 7,5 | 0+1+0 | COMPULSORY | Turkish |
| 523301700 | SPECIALIZATION FIELD COURSE\* | 5 | 3+0+0 | COMPULSORY | Turkish |
| 523301200 | THESIS | 25 | 0+1+0 | COMPULSORY | Turkish |
| 520111103 | RESEARCH METHODS AND PUBLICATION ETHICS | 7,5 | 3+0+0 | COMPULSORY | Turkish |
| 523303203 | ELECTROTHERAPY | 7,5 | 3+2+0 | ELECTIVE | Turkish |
| 523303204 | GERIATRIC REHABILITATION | 7,5 | 2+2+0 | ELECTIVE | Turkish |
| 523303205 | EXERCISE AND BODY SYSTEMS PHYSIOLOGY I | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523303206 | UPPER EXTREMITY SPORTS INJURIES | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523303207 | CHOICE OF APPLIED ORTHOSIS | 7,5 | 3+2+0 | ELECTIVE | Turkish |
| 523303208 | APPROACHES IN TONUS DISORDERS | 7,5 | 4+0+0 | ELECTIVE | Turkish |
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| Spring Semester |
| 523304201 | CLINICAL APPLICATION IN PHYSIOTHERAPY REHABILITATION II | 7,5 | 2+4+0 | COMPULSORY | Turkish |
| 523301400 | SEMINAR | 7,5 | 0+1+0 | COMPULSORY | Turkish |
| 523301700 | SPECIALIZATION FIELD COURSE\* | 5 | 3+0+0 | COMPULSORY | Turkish |
| 523301200 | THESIS | 25 | 0+1+0 | COMPULSORY | Turkish |
| 520111103 | RESEARCH METHODS AND PUBLICATION ETHICS\* | 7,5 | 3+0+0 | COMPULSORY | Turkish |
| 523304202 | HEAT LIGHT  | 7,5 | 3+2+0 | ELECTIVE | Turkish |
| 523304203 | PHYSIOTHERAPY APPROACHES IN WOMEN'S HEALTH | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523304204 | HEALTH LIFE AND PHYSICAL ACTIVITY  | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523304205 | EXERCISE AND BODY SYSTEMS PHYSIOLOGY II | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523304206 | LOWER EXTREMITY SPORTS INJURIES | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523304207 | DIABETICS FOOT REHABILITATION | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523304208 | TECHNOLOGY BASED APPROACHES IN REHABILITATION | 7,5 | 3+0+0 | ELECTIVE | Turkish |
| 523304209 | MOVEMENT ANALYSES IN NEUROLOGICAL DISORDERS | 7,5 | 4+0+0 | ELECTIVE | Turkish |
| 523304210 | PRINCIPLES OF ORTHOSIS IN ADULTS | 7,5 | 3+0+0 | ELECTIVE | Turkish |

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| **COURSE CODE** | 523303201 | **DEPARTMENT** | Physiotherapy and Rehabilitation |
| **COURSE NAME**  | Clınıcal Applıcatıon in Physıotherapy Rehabılıtatıon - I |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Raziye Nesrin DEMİRTAS, Halil Hakan UYSAL | Turkish | **Technical** | **Medical** | **Other (…)** |
|  | x |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | x |  |  |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Autumn | 2 | 4 | 0 | 4 | 7,5 | Compulsory |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  | 0 |
| 2nd Mid-Term |  | 0 |
| Quiz |  | 0 |
| Homework | 2 | 40 |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | **2** | 60 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Evidence-based clinical evaluation and applications in Physiotherapy and Rehabilitation |
| **COURSE AIMS** | Developing the knowledge, skills and competencies required for physiotherapy and rehabilitation practices to identify, prevent and treat movement and function disorders and improve health-related quality of life. |
| **COURSE OBJECTIVES** | By analyzing appropriate evaluation and treatment options in physiotherapy and rehabilitation, choosing and applying the appropriate treatment |
| **TEXTBOOK(S)** | Fizyoterapi Rehabilitasyon Seti 3 Cilt. Ayşe Karaduman, Öznur Tunca Yılmaz (Eds) ,2016, Hipokrat Kitabevi |
| **REFERENCES** | Temel Fizyoterapi Rehabilitasyon Fatih Erbahçeci (Ed), 2019 Hipokrat Kitabevi |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** | 0 06-10-2021  | Ph D PT Prof. Raziye Nesrin Demirtaş Evaluation and analysis in physiotherapy and rehabilitation |
| **2** | 13-10-2021 | Asisst. Prof. Halil Hakan UYSALOrthopedic Approaches in Foot and Ankle Injuries |
| **3** | 20- 10 -2021 | Ph D PT Prof. Raziye Nesrin Demirtaş Exercise practices in physiotherapy and rehabilitation |
| **4** | 27- 10 -2021 | Asisst. Prof. Halil Hakan UYSALOrthopedic Approaches in Knee Joint Injuries |
| **6** | 03- 11 -2021 | Ph D PT Prof. Nesrin Demirtaş Electrotherapy applications in physiotherapy and rehabilitation |
|  | 10-11-2021 | Asisst. Prof. Halil Hakan UYSALOrthopedic Approaches in Hip Joint Injuries |
| **7** | 17-11-2021 | Ph D PT Prof. Raziye Nesrin DemirtaşPhysiotherapy and rehabilitation in rheumatic diseases |
| **8** |  | MID-TERM EXAM |
| **9** | 01-12-2021 | Asisst. Prof. Halil Hakan UYSALOrthopedic Approaches in Sports Injuries |
| **10** | 08-12-2021 | Ph D PT Prof. Raziye Nesrin Demirtaş Physiotherapy and rehabilitation in neuromuscular diseases |
| **11** | 15-12-2021 | Asisst. Prof. Halil Hakan UYSALOrthopedic Approaches in Upper Extremity Injuries |
| **12** | 22-12-2021 | Ph D PT Prof. Raziye Nesrin Demirtaş Hemiplegia rehabilitation |
| **13** | 29-12-2021 | Asisst. Prof. Halil Hakan UYSALSpinal Deformities and Orthopedic Approaches |
| **14** | 05-01-2022 | Ph D PT Prof. Raziye Nesrin Demirtaş Cerebral palsy rehabilitation |
| **15** | 12-01-2022 | Asisst. Prof. Halil Hakan UYSALDesign Development, Preparing Project |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | Gather as well as apply knowledge of health sciences |  |  | x |
| **2** | Ask scientific questions and form hypothesis |  | **x** |  |
| **3** | Search and interpret scientific literature |  |  | x |
| **4** | Design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | Learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | Function on multi-disciplinary teams | **x** |  |  |
| **7** | İdentify, formulate, and solve medical problems |  |  | x |
| **8** | Use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | Understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | Use effective written and oral communication/presentation skills |  |  | x |
| **11** | Get an understanding of professional and ethical responsibility |  |  | x |
| **12** | Get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | Other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | Other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Ph. D. PT. Prof.. Raziye Nesrin Demirtaş  | 27-09-2021 |

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| **COURSE CODE:** | 523303202 | **DEPARTMENT:** PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME:** |  | SCIENTIFIC RESEARCH AND DEVELOPMENT IN PHYSIOTHERAPY AND REHABILITATION |
| **INSTRUCTOR NAME**DOÇ. DR.EBRU TURAN KIZILDOĞANDR. ÖĞR. ÜYESİ ERDEM ATALAY | **COURSE LANGUAGE****Turkish: X****English: ** | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  |  | **X** |  |

**COURSE LEVEL**

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| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
| **** | **X** | **** | **** |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Autumn | 3  | 0  | 0 |  3 | 7,5 | COMPULSORY ELECTIVE **X ** |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |   |  |
| 2 nd Mid- Term |   |  |
| Quiz |  |   |
| Homework | 2  | % 40  |
| Project |   |  |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz |  |  |
| Homework |  |  |
| Project | 2 | % 60 |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | X | X |
| **PREREQUISITE(S)** | None |
| **COURSE CONTENT** | Explain the methods of scientific research planning, practice, methods and writing scientific reports/articles |
| **COURSE AIMS** | 1. Knowledge of scientific method2 To be able to formulate research problem and sub-problems3 Ability to test hypotheses4 Sample selection5 Being able to write a research proposal6 Being able to prepare an ethics committee report7. Being able to implement a research project |
| **COURSE OBJECTIVES** | This course aims to gain attitudes that adopt the rules of scientific research ethics, as well as the knowledge of research planning, conducting, choosing appropriate statistical methods for the obtained data and interpreting the results, appropriate report writing method, footnotes and references In the field of physiotherapy rehabilitation. |
| **TEXTBOOK(S)** |  Carolyn MH. Practical Research Methods for Physiotherapists Churchill Livingstone, Singapore, 1988 |
| **REFERENCES** | Sümbüloğlu, V., Sümbüloğlu, K. Sağlık Bilimlerinde Araştırma Yöntemleri Hatiboğlu Yayınevi, Ankara. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** |  **DATE** | **SUBJECTS/TOPICS** |
| 1 |  | Science and the scientific method: The birth of scientific thought. scientific method and research. Stages of the scientific method. Features and functions of science. Scientific attitude and related behavioral characteristics. |
| 2 |  |  Data and data collection. Measurement tools, questionnaires, scales used in the field. |
| 3 |  | Validity and reliability in measurement: Reliability of tests, questionnaires and scales and calculation of reliability coefficient |
| 4 |  | Theoretical basis and rationale of research, research problems and sub-problems. The research problem, the purpose and importance of the research, the differences between them. Limitations and definitions of studies. |
| 5 |  | Rules to be followed when writing a research report |
| 6 |  | Literature review for related studies |
| 7 |  | Selection and presentation of relevant research |
| 8 |  | Mıd-term exam |
| 9 |  | Lecture, question and answer method. Discussion, brainstorming, practical work in seminar and lecture, orally, in writing with assignments. Analysis of previous research. |
| 10 |  | Findings and comment. Related examples. The rules to be followed in presenting and interpreting the findings, writing the findings and presenting them in tabular form. Table headers. Summary conclusions and recommendations. Rules to be followed when writing a research report. Citation and bibliography writing |
| 11 |  | Summary conclusions and recommendations. |
| 12 |  | Citation and bibliography writing |
| 13 |  |  |
| 14 |  | Research planning and data collection |
| 15 |  |  |
| 16 |  | Final exam |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** |  | **1** | **2** | **3** |
| 1 | Ability to gather and apply information on health sciences |  | **X** |  |
| 2 | Ability to ask scientific questions and form hypothesis |  |  | **X** |
| 3 | Ability to search and interpret scientific literature |  |  | **X** |
| 4 | Ability to design and conduct experiments as well as analyze and interpret the data |  |  | **X** |
| 5 | Ability to learn how to use the experimental equipment effectively and Appropriately |  | **X** |  |
| 6 | Ability to function on multi-disciplinary teams |  |  | **X** |
| 7 | Ability to identify, formulate, and solve medical problems |  |  | **X** |
| 8 | Ability to use computer effectively both in conducting the experiments and analyzing the data |  |  | **X** |
| 9 | Ability to understand the impact of experimental solutions on national and international sciences |  |  | **X** |
| 10 | Ability to use effective written and oral communication/presentation skills |  |  | **X** |
| 11 | Ability to get an understanding of professional and ethical responsibility |  | **X** |  |
| 12 | Ability to get a recognition of the need for, and an ability to engage in lifelong learning |  | **X** |  |
| 13 | Ability to recognize basic concepts in medical education | **X** |  |  |
| 14 | Ability to approach ethical problems by centering basic concepts |  | **X** |  |

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| **Instructor Name****Sign**DOÇ. DR.EBRU TURAN KIZILDOĞANDR. ÖĞR. ÜYESİ ERDEM ATALAY |  **Date** |

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| **COURSE CODE** | 523303203 | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME Electrotherapy** |  |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş | Turkish | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
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| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | X |  |  |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Autumn | 3 | 2 | 0 | 4 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  | 0 |
| 2nd Mid-Term |  | 0 |
| Quiz |  | 0 |
| Homework |  | 40 |
| Project |  | 0 |
| Oral Exam |  | 0 |
| Other (………) |  | 0 |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project |  | 60 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Physical properties, physiological effects, indications and contraindications, application principles of different electrotherapy agents used in physiotherapy and rehabilitation applications, selection of the appropriate electrotherapy agent and application method in treatment |
| **COURSE AIMS** | Developing evidence-based evaluation and decision-making skills with electrotherapy methods in different situations related to physiotherapy and rehabilitation |
| **COURSE OBJECTIVES** |  |
| **TEXTBOOK(S)** | Nihal Şimşek, Nuray Kırdı, Aydın Meriç, Sema Savcı, Nilüfer Çetişli Korkmaz, Tüzün Fırat, Çiğdem Ayhan, Özlem Yörük. Elektroterapide Temel Prensipler ve Klinik Uygulamalar, Pelikan Kitabevi, 2015 |
| **REFERENCES** |  |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** | 06-10-2021  | The concept of the elderly and its epidemiology |
| **2** | 13- 10 -2021 | Aging and changes in the musculoskeletal and nervous system |
| **3** | 20- 10 -2021 | Aging and changes in the cardio-pulmonary system |
| **4** | 27- 10 -2021 | Aging and changes in the endocrine system |
| **5** | 03- 11 -2021  | Aging and changes in the urinary system |
| **6** | 10- 11 -2021 | Aging and gait disorders |
| **7** | 17-11-2021 | Aging and balance disorders |
| **8** |  | MID-TERM EXAM |
| **10** | 01-12-2021 | Galvanic currents |
| **11** | 08-12-2021 | Modified forms of straight current |
| **12** | 15-12-2021 | Electrical stimulation of healthy and denervated muscles |
| **13** | 22-12-2021 | low frequency currents |
| **14** | 29-12-2021 | Electrodiagnostic evaluation |
| **15** | 05-01-2022 | Diadynamic currents |
| **16** | 12-01-2022 | Interference currents |
|  |  | **FINAL EXAM** |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | Gather as well as apply knowledge of health sciences |  |  | x |
| **2** | Ask scientific questions and form hypothesis |  | **x** |  |
| **3** | Search and interpret scientific literature |  |  | x |
| **4** | Design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | Learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | Function on multi-disciplinary teams | **x** |  |  |
| **7** | İdentify, formulate, and solve medical problems |  |  | x |
| **8** | Use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | Understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | Use effective written and oral communication/presentation skills |  |  | x |
| **11** | Get an understanding of professional and ethical responsibility |  |  | x |
| **12** | Get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | Other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | Other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş | 27-09-2021 |

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| **COURSE CODE** | 523303204 | **DEPARTMENT** | Physiotherapy and Rehabilitation |
| **COURSE NAME Geriatric rehabilitation** |  |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş |  | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
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| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | x |  |  |

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| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Autumn | 2 | 2 | 0 | 3 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  | 0 |
| 2nd Mid-Term |  | 0 |
| Quiz |  | 0 |
| Homework | 2 | 40 |
| Project |  | 0 |
| Oral Exam |  | 0 |
| Other (………) |  | 0 |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | **1** | **60** |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Old age and evidence-based physiotherapy and rehabilitation evaluation and treatment methods in the elderly  |
| **COURSE AIMS** | To provide preventive physiotherapy and the correct evaluation, identification, perception and treatment of emerging problems in the elderly. |
| **COURSE OBJECTIVES** | Providing high-quality rehabilitation services in a multidisciplinary approach by looking at the aging world from a broader perspective. |
| **TEXTBOOK(S)** | Fizyoterapi Rehabilitasyon Seti 3 Cilt. Ayşe Karaduman, Öznur Tunca Yılmaz (Eds) ,2016, Hipokrat Kitabevi |
| **REFERENCES** | Temel Fizyoterapi Rehabilitasyon, Erbahçeci F, Meriç A, Hotaman H, Büyükturan Ö, (Eds), Hipokrat Kitabevi, 2019 Ankara, 2019 ss.241-252, |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** | 06-10-2021  | The concept of the elderly and its epidemiology |
| **2** | 13- 10 -2021 | Aging and changes in the musculoskeletal and nervous system |
| **3** | 20- 10 -2021 | Aging and changes in the cardio-pulmonary system |
| **4** | 27- 10 -2021 | Aging and changes in the endocrine system |
| **5** | 03- 11 -2021  | Aging and changes in the urinary system |
| **6** | 10- 11 -2021 | Aging and gait disorders |
| **7** | 17-11-2021 | Aging and balance disorders |
| **8** |  | MID-TERM EXAM |
| **10** | 01-12-2021 | Geriatric syndromes |
| **11** | 08-12-2021 | Geriatric syndromes |
| **12** | 15-12-2021 | Geriatric assessment in physiotherapy and rehabilitation (Story Taking, Physical Assessment, Functional Status, Mental Status, Emotional Status) |
| **13** | 22-12-2021 | Geriatric assessment in physiotherapy and rehabilitation (Story Taking, Physical Assessment, Functional Status, Mental Status, Emotional Status) |
| **14** | 29-12-2021 | The importance of physical activity in healthy aging |
| **15** | 05-01-2022 | Treatment in geriatric syndromes |
| **16** | 12-01-2022 | Treatment in geriatric syndromes |
|  |  | **FINAL EXAM** |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | Gather as well as apply knowledge of health sciences |  |  | x |
| **2** | Ask scientific questions and form hypothesis |  | **x** |  |
| **3** | Search and interpret scientific literature |  |  | x |
| **4** | Design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | Learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | Function on multi-disciplinary teams | **x** |  |  |
| **7** | İdentify, formulate, and solve medical problems |  |  | x |
| **8** | Use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | Understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | Use effective written and oral communication/presentation skills |  |  | x |
| **11** | Get an understanding of professional and ethical responsibility |  |  | x |
| **12** | Get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | Other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | Other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş | 27-09-2021 |

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| **COURSE CODE** | **523303205** | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME** | EXERCISE AND BODY SYSTEMS PHYSIOLOGY I |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Asst Prof. Dr. Erdem ATALAY | Turkish | **Technical** | **Medical** | **Other (…)** |
|  | **X** |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | **X** |  |  |

|  |  |  |
| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Autumn **X** | **3** | **0** | **0** | **3** | **7,5** | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **30** |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (Literature review and presentation) | **1** | **20** |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (Written Exam) | **1** | **50** |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  | **X** |  |  |
| **PREREQUISITE(S)** | To have succesfully completed the Human Physiology at the undergraduate level |
| **COURSE CONTENT** | Physiological responses and physiological adaptation mechanisms of body systems at different exercise levels and in different environmental conditions |
| **COURSE AIMS** | Examination of the responses of body systems to different types of exercise |
| **COURSE OBJECTIVES** | Learning the physiological responses of human body systems at different exercise levels and in different environmental conditions |
| **TEXTBOOK(S)** | Kraemer WJ. Fleck SJ. Deschenes MR. Exercise PhysiologyEhrman JK. Kerrigan DJ. Keteyian SJ. Advanced Exercise PhysiologyMcArdle WD, Katch FI and Katch VL. Exercise Physiology: Nutrition, Energy, and Human PerformanceGuyton AC. and Hall JE. Textbook of Medical Physiology |
|  |  |
| **REFERENCES** | Related article, lecture notes and various visual materials obtained from the internet will be presented to the stucents during the lesson. |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Fundamentals of Bioenergetics |
| **2** |  | Aerobic and Anaerobic Metabolic Pathways |
| **3** |  | Metabolic Regulation During Exercise |
| **4** |  | Structure and Contraction Mechanisms of Skeletal Muscle |
| **5** |  | Muscle's Force Generating Capacity and Adaptation to Exercise |
| **6** |  | Nerve-Muscle Control of Movement |
| **7** |  | Exercise and the Nervous System |
| **8** |  | MID-TERM EXAM |
| **9** |  | Structure, Function and Organization of The Cardiovascular System |
| **10** |  | Circulatory Hemodynamics and Blood Flow Distribution in Exercise |
| **11** |  | Cardiac Changes During Acute Exercise |
| **12** |  | Exercise Endocrinology |
| **13** |  | Fluid and Electrolyte Regulation in Exercise |
| **14** |  | Understanding and Improving Body Composition |
| **15** |  | Article Discussion |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | **X** |
| **2** | ask scientific questions and form hypothesis |  | **X** |  |
| **3** | search and interpret scientific literature |  |  | **X** |
| **4** | design and conduct experiments as well as analyze and interpret the data |  | **X** |  |
| **5** | learn how to use the experimental equipment effectively |  | **X** |  |
| **6** | function on multi-disciplinary teams |  |  | **X** |
| **7** | identify, formulate, and solve medical problems |  |  | **X** |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | **X** |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  | **X** |  |
| **10** | use effective written and oral communication/presentation skills |  | **X** |  |
| **11** | get an understanding of professional and ethical responsibility |  | **X** |  |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **X** |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | **X** |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **X** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Asst. Prof Dr. Erdem ATALAY |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSE CODE** | **523303206** | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME** | UPPER EXTREMITY SPORTS INJURIES |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Asst Prof. Dr. Erdem ATALAY | Turkish | **Technical** | **Medical** | **Other (…)** |
|  | **X** |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | **X** |  |  |

|  |  |  |
| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Autumn | **3** | **0** | **0** | **3** | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **30** |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) | **1** | **20** |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (Written Exam) | **1** | **50** |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  | **X** |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Clinical evaluation, diagnosis and sportive rehabilitation processes of upper extremity sports injuries will be covered. |
| **COURSE AIMS** | To develop clinical knowledge about the diagnosis and treatment of upper extremity injuries in athletes. |
| **COURSE OBJECTIVES** | After the completion of this lesson, it is aimed to improve the knowledge of the students about the diagnosis, treatment and sports rehabilitation of upper extremity sports injuries. |
| **TEXTBOOK(S)** |  Burkner P, Khan K. Clinical Sports MedicineMiller MD, Thompson SR. Delee and Drez's Orthopedic Sports MedicineSaka T, Clinical Sports Medicine |
| **REFERENCES** | Related articles, lecture notes and various visual materials obtained from the internet will be presented to the students during the lesson. |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Clinical Approach to Shoulder Pain |
| **2** |  | Rotator Cuff Injuries and Shoulder Instability |
| **3** |  | Biceps Pathologies, SLAP Lesions, and Lack of Glenohumeral Internal Rotation |
| **4** |  | Scapular Dyskinesia and Acromioclavicular Joint Injuries |
| **5** |  | Rare Causes of Shoulder Pain and Evaluation in Overhead Athletes |
| **6** |  | Lateral, Medial and Posterior Elbow Pain |
| **7** |  | Acute Elbow Injuries |
| **8** |  | MID-TERM EXAM |
| **9** |  | Forearm and Upper Arm Pain |
| **10** |  | Wrist Radial and Central Girth Problems |
| **11** |  | Ulnar Colon Problems |
| **12** |  | Wrist Numbness and Hand Pain and Wrist Rehabilitation |
| **13** |  | Clinical Approach to Hand and Finger Injuries, Fractures and Joint Dislocations |
| **14** |  | Ligament and Tendon Injuries of the Hand and Exercises for the Hand |
| **15** |  | Article Discussion |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | **X** |
| **2** | ask scientific questions and form hypothesis |  | **X** |  |
| **3** | search and interpret scientific literature |  |  | **X** |
| **4** | design and conduct experiments as well as analyze and interpret the data |  | **X** |  |
| **5** | learn how to use the experimental equipment effectively |  | **X** |  |
| **6** | function on multi-disciplinary teams |  |  | **X** |
| **7** | identify, formulate, and solve medical problems |  |  | **X** |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | **X** |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  | **X** |  |
| **10** | use effective written and oral communication/presentation skills |  | **X** |  |
| **11** | get an understanding of professional and ethical responsibility |  | **X** |  |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  | **X** |  |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | **X** |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **X** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Asst. Prof Dr. Erdem ATALAY |  |

|  |  |  |  |
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| **COURSE CODE:** | **523303207** | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME:** | **CHOICE OF APPLIED ORTHOSIS** |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Assist. Prof. Dr. Halil Hakan UYSAL | TURKISH | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | X |  |  |

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| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Autumn  | 3 | 2 | 0 | 4 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  |  |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework | 3 | 45 |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | 1 | 55 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Lower extremity orthoses, upper extremity orthoses, spinal orthoses. |
| **COURSE AIMS** | To evaluate the types of orthoses used in rehabilitation practices, to evaluate the situations in which they are used, to discuss with the literature, to make clinical choices. |
| **COURSE OBJECTIVES** | To know orthoses, to have information about their materials and application forms, to be able to design. |
| **TEXTBOOK(S)** |  Bek N. Ortezler. Hipokrat Yayıncılık. Ankara, 2020. |
| **REFERENCES** | 1. Chui KK,Jorge M, Yen SC,Lusardi M.*Orthotics and Prosthetics in Rehabilitation.* 4rd Edition, Elsevier Saunders, 2019.
2. Lusardi M, Jorge M, Nielsen C.*Orthotics and Prosthetics in Rehabilitation.* 3rd Edition, Elsevier Saunders, 2013.
3. May BJ, Lockard MA. *Prosthetics & Orthotics in Clinical Practice: A Case Study Approach.*Davis Company, 2011.

4.) Hsu JD, Michael JW, Fisk JR. *AAOS* *Atlas of Orthoses and Assistive Devices.* 4th Edition, Mosby Elsevier, 2008. |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Foot Deformities and Orthoses |
| **2** |  | Features of Appropriate Shoes |
| **3** |  | Ankle Foot Orthoses |
| **4** |  | Knee Orthoses |
| **5** |  | Developmental Hip Dysplasia and Orthoses |
| **6** |  | Spinal Deformities and Orthoses |
| **7** |  | Spinal Deformities and Orthoses |
| **8** |  | MID-TERM EXAM |
| **9** |  | Upper Extremity Orthoses |
| **10** |  | Orthosis use in Sports Injuries |
| **11** |  | Use of Orthoses in Neurological Diseases |
| **12** |  | Orthotics use in Orthopedics and Traumatology |
| **13** |  | Design Development  |
| **14** |  | Preparing Project |
| **15** |  | Preparing Project |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | X |
| **2** | ask scientific questions and form hypothesis |  | X |  |
| **3** | search and interpret scientific literature |  |  | X |
| **4** | design and conduct experiments as well as analyze and interpret the data |  |  | X |
| **5** | learn how to use the experimental equipment effectively |  | X |  |
| **6** | function on multi-disciplinary teams | X |  |  |
| **7** | identify, formulate, and solve medical problems |  |  | X |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | X |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  |  | X |
| **10** | use effective written and oral communication/presentation skills |  | X |  |
| **11** | get an understanding of professional and ethical responsibility |  | X |  |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  | X |  |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | X |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | X |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Assist. Prof. Dr. Halil Hakan UYSAL | 23.09.2021 |

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| **COURSE CODE** | **523303208** | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME :**  | **APPROACHES IN TONUS DISORDERS** |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Hilal Keklicek,Assoc Prof | Turkish | **Technical** | **Medical** | **Other (…)** |
| x |  |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | x |  |  |

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| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Autumn | 4 | 0 | 0 | 4 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | 0 | 0 |
| 2nd Mid-Term | 0 | 0 |
| Quiz | 0 | 0 |
| Homework | 2 | 30 |
| Project | 1 | 20 |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz | 1 | 10 |
| Homework | 2 | 30 |
| Project | 1 | 10 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  | **1** |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Concept of normal and abnormal tonus, precursors of normal and abnormal tonus, types and symptoms of tonus disorders, rehabilitation models used in tonus disorders, advantages, and disadvantages, current developments, literature review, and interpretation. |
| **COURSE AIMS** | In the light of the literature, it is aimed to elaborate the concept of tonus disorders in-depth, and to enable the student to learn the rehabilitation models used in tonus disorders and to gain an idea about symptom-specific model selection. |
| **COURSE OBJECTIVES** | To know the concept of the normal and abnormal tonus, its differences, and predisposing factors and to gain clinical interpretation in the light of the literature. |
| **TEXTBOOK(S)** | Karaduman, A. Fizyoterapi ve Rehabilitasyon, Cilt 1-3. Erbahçeci,F Temel Fizyoterapi.  |
| **REFERENCES** | Karaduman A. Bobath Kavramı. Kılınç M. Nörolojik Fizyoterapide Ölçme ve Değerlendirme Yöntemleri.Armutlu K. Spasticity and Its Management with Physical Therapy Applications with Multiple Sclerosis Patients. Livanelioğlu A. Propriseptif Nöromuskuler Fasilitasyon Teknikleri. , pubmed, pedro,CINAHL, Medline,Google schoolar |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Introduction to normal muscle tonus, general information. |
| **2** |  | Formation of normal muscle tonus and influencing factors |
| **3** |  | The formation of abnormal muscle tonus and influencing factors |
| **4** |  | Hypertonus and Rehabilitation |
| **5** |  | Hypertonus and Rehabilitation |
| **6** |  | Hypotonus and its Rehabilitation |
| **7** |  | Exam preparation, general review |
| **8** |  | MID-TERM EXAM |
| **9** |  | Hypotonus and Rehabilitation |
| **10** |  | Dystonia and Rehabilitation |
| **11** |  | Dystonia and Rehabilitation |
| **12** |  | Rigidity and Rehabilitation |
| **13** |  | Rigidity and Rehabilitation |
| **14** |  | Project planning |
| **15** |  | Exam preparation, general review |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | x |
| **2** | ask scientific questions and form hypothesis |  | **x** |  |
| **3** | search and interpret scientific literature |  |  | x |
| **4** | design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | function on multi-disciplinary teams | **x** |  |  |
| **7** | identify, formulate, and solve medical problems |  |  | x |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | use effective written and oral communication/presentation skills |  |  | x |
| **11** | get an understanding of professional and ethical responsibility |  |  | x |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Hilal Keklicek,Assoc Prof. |  |

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| **COURSE CODE:** | 523304201 | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME:** | CLINICAL APPLICATION IN PHYSIOTHERAPY REHABILITATION- II  |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Prof. Dr. R. Nesrin DEMİRTAŞAssist. Prof. Dr. Halil Hakan UYSAL | TURKISH | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | X |  |  |

|  |  |  |
| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring | 2 | 4 | 0 | 4 | 7,5 | Compulsory |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  |  |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework | 2 | 40 |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | 2 | 60 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Orthopedic rehabilitation applications, physiotherapy and rehabilitation applications |
| **COURSE AIMS** | To discuss orthopedic rehabilitation and physiotherapy and rehabilitation practices in the light of literature. |
| **COURSE OBJECTIVES** | To apply rehabilitation approaches in orthopedic conditions involving the skeletal system. |
| **TEXTBOOK(S)** | 1.) Karaduman AA, Tunca Yılmaz Ö. *Fizyoterapi Rehabilitasyon.* Pelikan Yayıncılık, Ankara, 2016.2.) Erbahçeci F. Temel Fizyoterapi Rehabilitasyon. Hipokrat Yayıncılık, Ankara, 2019. |
| **REFERENCES** |  |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Cardiac Rehabilitation |
| **2** |  | Amputee Rehabilitation |
| **3** |  | Pulmonary Rehabilitation |
| **4** |  | Post Fracture Physiotherapy Rehabilitation |
| **5** |  | Geriatric Rehabilitation |
| **6** |  | Rehabilitation in Hand Injuries |
| **7** |  | Virtual Reality Applications in Physiotherapy and Rehabilitation |
| **8** |  | SEMESTER EXAM |
| **9** |  | Lower Extremity Arthroplasty and Rehabilitation |
| **10** |  | Physiotherapy Rehabilitation in Pregnant Women |
| **11** |  | Rehabilitation in Idiopathic Scoliosis and Kyphosis |
| **12** |  | Physiotherapy Rehabilitation in Menopause |
| **13** |  | Taping |
| **14** |  | Design Development, Project Preparation |
| **15** |  | Design Development, Preparing Project |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | Gather as well as apply knowledge of health sciences |  |  | X |
| **2** | Ask scientific questions and form hypothesis |  |  | X |
| **3** | Search and interpret scientific literature |  |  | X |
| **4** | Design and conduct experiments as well as analyze and interpret the data |  | X |  |
| **5** | Learn how to use the experimental equipment effectively | X |  |  |
| **6** | Function on multi-disciplinary teams |  |  | X |
| **7** | İdentify, formulate, and solve medical problems |  |  | X |
| **8** | Use computer effectively both in conducting the experiments and analyzing the data | X |  |  |
| **9** | Understand the impact of experimental solutions on national and international sciences |  |  | X |
| **10** | Use effective written and oral communication/presentation skills |  |  | X |
| **11** | Get an understanding of professional and ethical responsibility |  | X |  |
| **12** | Get a recognition of the need for, and an ability to engage in lifelong learning |  |  | X |
| **13** | Other (get an understanding of basic concepts of medical education) |  |  | X |
| **14** | Other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  |  | X |

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| **INSTRUCTOR NAME** | **DATE** |
| Prof. Dr. Raziye Nesrin Demirtaş | 28.09.2021 |

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| **COURSE CODE** | 523304202 | **DEPARTMENT** | Physiotherapy and Rehabilitation |
| **COURSE NAME Heat Light**  |  |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş |  | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | x |  |  |

|  |  |  |
| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring | 3 | 2 | 0 | 4 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  | 0 |
| 2nd Mid-Term |  | 0 |
| Quiz |  | 0 |
| Homework | 2 | 40 |
| Project |  | 0 |
| Oral Exam |  | 0 |
| Other (………) |  | 0 |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | **1** | **60** |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Physical principles, physiological effects, application methods, indications and contraindications, application principles of heat, light and hydrotherapy modalities |
| **COURSE AIMS** | To gain theoretical and practical skills about heat, light, hydrotherapy applications, principles of application in clinical conditions, selection and application of appropriate treatment modality. |
| **COURSE OBJECTIVES** |  |
| **TEXTBOOK(S)** | [Hülya Harutoğlu,](https://www.hipokratkitabevi.com/hulya-harutoglu)[Başar Öztürk,](https://www.hipokratkitabevi.com/basar-ozturk-1)[Yonca Zenginler](https://www.hipokratkitabevi.com/yonca-zenginler-1). Isı, Işık ve Hidroterapi. [Hipokrat Kitabevi](https://www.hipokratkitabevi.com/hipokrat-kitabevi), 2016 |
| **REFERENCES** |  |

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| --- |
| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** | 06-10-2021  | Inflammation and repair |
| **2** | 13- 10 -2021 | Pain theory and physiotherapy |
| **3** | 20- 10 -2021 | Physiological effects of superficial heat agents |
| **4** | 27- 10 -2021 | Infrared |
| **5** | 03- 11 -2021  | Laser |
| **6** | 10- 11 -2021 | Ultraviolet |
| **7** | 17-11-2021 | Heliotherapy |
| **8** |  | MID-TERM EXAM |
| **10** | 01-12-2021 | Physiological effects of cold application agents |
| **11** | 08-12-2021 | Physical and physiological principles of hydrotherapy |
| **12** | 15-12-2021 | Evaluation tests and different application methods in hydrotherapy |
| **13** | 22-12-2021 | Indications and contraindications in hydrotherapy |
| **14** | 29-12-2021 | Water applications with Mechanical Alert |
| **15** | 05-01-2022 | Spa treatment (Balneotherapy) |
| **16** | 12-01-2022 | An overview |
|  |  | **FINAL EXAM** |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | Gather as well as apply knowledge of health sciences |  |  | x |
| **2** | Ask scientific questions and form hypothesis |  | **x** |  |
| **3** | Search and interpret scientific literature |  |  | x |
| **4** | Design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | Learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | Function on multi-disciplinary teams | **x** |  |  |
| **7** | İdentify, formulate, and solve medical problems |  |  | x |
| **8** | Use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | Understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | Use effective written and oral communication/presentation skills |  |  | x |
| **11** | Get an understanding of professional and ethical responsibility |  |  | x |
| **12** | Get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | Other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | Other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| --- | --- |
| **INSTRUCTOR NAME** | **DATE** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş | 27-09-2021 |

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSE CODE** | 523304203 | **DEPARTMENT** | Physiotherapy and Rehabilitaion |
| **COURSE NAME**  | Physiotherapy Approaches in Women's Health |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş | Turkish | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | x |  |  |

|  |  |  |
| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring  | 3 | 0 | 0 | 3 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  | 0 |
| 2nd Mid-Term |  | 0 |
| Quiz |  | 0 |
| Homework | 2 | 40 |
| Project |  | 0 |
| Oral Exam |  | 0 |
| Other (………) |  | 0 |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | **1** | **60** |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Definition of the problems covered by physiotherapy and rehabilitation in women's health, classification, evaluation, preventive approaches, selection of different physiotherapy approaches that can be applied and the application principles of these approaches. |
| **COURSE AIMS** | To gain basic information about the selection of evidence-based evaluation and treatment methods on issues concerning women's health, starting from childhood, in different stages of women's life. |
| **COURSE OBJECTIVES** |  |
| **TEXTBOOK(S)** | Kadın Sağlığında Fizyoterapi ve Rehabilitation, Ed: Akbayrak T., Pelikan Yayıncılık, 2016, Ankara |
| **REFERENCES** | Akbayrak T, Demirtas RN, Demirtürk F, Bakar Y, Kaya S, Çeliker Tosun Ö, et al. (Çevirmenler) KNGF Kılavuzu Stres Üriner Inkontinansı Olan Hastalarda Fizyoterapi. Akbayrak T, Kaya S, ed. Ankara: Pelikan Kitabevi; 2015 |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** | 06-10-2021  | Pelvis anatomy |
| **2** | 13- 10 -2021 | Urogenital system anatomy and physiology |
| **3** | 20- 10 -2021 | Anatomy and physiology of anorectal continence |
| **4** | 27- 10 -2021 | pelvic floor dysfunction |
| **5** | 03- 11 -2021  | Pelvic floor physiotherapy and rehabilitation in children |
| **6** | 10- 11 -2021 | Menstruation, physiotherapy in menstrual disorders |
| **7** | 17-11-2021 | Changes in pregnancy and birth preparation education |
| **8** |  | MID-TERM EXAM |
| **10** | 01-12-2021 | Physiotherapy and rehabilitation in urinary incontinence |
| **11** | 08-12-2021 | Physiotherapy and rehabilitation in anorectal dysfunction |
| **12** | 15-12-2021 | Physiotherapy and rehabilitation in sexual dysfunction |
| **13** | 22-12-2021 | Physiotherapy and rehabilitation in menopause |
| **14** | 29-12-2021 | Physiotherapy and rehabilitation in genital organ cancers |
| **15** | 05-01-2022 | Physiotherapy and rehabilitation in breast cancer |
| **16** | 12-01-2022 | An overview |
|  |  | **FINAL EXAM** |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | Gather as well as apply knowledge of health sciences |  |  | x |
| **2** | Ask scientific questions and form hypothesis |  | **x** |  |
| **3** | Search and interpret scientific literature |  |  | x |
| **4** | Design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | Learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | Function on multi-disciplinary teams | **x** |  |  |
| **7** | İdentify, formulate, and solve medical problems |  |  | x |
| **8** | Use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | Understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | Use effective written and oral communication/presentation skills |  |  | x |
| **11** | Get an understanding of professional and ethical responsibility |  |  | x |
| **12** | Get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | Other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | Other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Ph.D. PT. Prof. Raziye Nesrin Demirtaş | 27-09-2021 |

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| --- | --- | --- |
| **COURSE CODE:** | 523304204 | **DEPARTMENT:** PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME:** |  | HEALTH LIFE AND PHYSICAL ACTIVITY  |
| **INSTRUCTOR NAME**DOÇ. DR.EBRU TURAN KIZILDOĞAN | **COURSE LANGUAGE****Turkish: X****English: ** | **Course Catagory** |
| Technical | Medical | Other(……) |
|  |  |  |  |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
| **** | **X** | **** | **** |

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| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **Theoric** | **Practice** | **Laboratory** | **Credit** | **ECTS** | **TYPE** |
| Spring **X** | 3  | 0  | 0 |  3 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM** | **ACTIVITY** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  |  |
| 2 nd Mid- Term |   |  |
| Quiz |  |   |
| Homework | 1 | 40 |
| Project |   |  |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL** | Quiz |  |  |
| Homework | 1 | 60 |
| Project |  |  |
| Oral Exam |  |  |
| Other(……………….) |  |  |
| **MAKE-UP EXAM** | Oral | Written | Oral and Written | Multiple Choice |
|  |  | X | X |
| **PREREQUISITE(S)** | None |
| **COURSE CONTENT** | Basic concepts such as physical activity, physical fitness, exercise, sports andEvaluating the effects of physical activity on healthy livingThe importance of regular physical activity in chronic diseases and the prevention mechanisms of these diseases |
| **COURSE AIMS** | 1. To be able to learn basic concepts such as physical activity, physical fitness, exercise and sports and their differences 2. Evaluating the effects of physical activity on healthy living and being aware of its importance3. Identifying health problems caused by physical inactivity4. To be able to teach how to prevent chronic diseases with physical activity5. The importance of maintaining physical activity throughout life and acquiring adequate equipment in this regard are aimed. |
| **COURSE OBJECTIVES** | The aim of present course is to prevent the various diseases caused by obesity and inactivity, which are becoming widespread today, the basic principles of exercise prescription for a healthy life, how to prevent these diseases with regular activities and physical activities, and to acquire knowledge and skills such as exercise description. Thus, it is aimed that candidate teachers, who will give students the importance of maintaining physical activity and exercise throughout their life, and the basic principles of these activities, to acquire sufficient equipment in this regard. |
| **TEXTBOOK(S)** | 1. Egzersiz ve Spor Fizyolojisi, 6. baskı, N. Akgün, Ege Üniv. Basımevi, 19962. Essentials of Exercise physiology, W.D. McArdle, F.I. Katch, V.L. Katch, Lippincott, Williams Wilkins, Baltimore, 2000 |
| **REFERENCES** | 1. Türkiye Fiziksel Aktivite Rehberi, Sağlık Bakanlığı, Türkiye Halk Sağlığı Kurumu, Ankara, 2014.2. Walter R. Thompson, Barbara A. Bushman, Julia Desh, Lon Kravitz. ACSM’s Resources for, the Personel Trainer (3. Edition). WolterKluwer, 2010.3. Nicholas L. Holt., Margaret Talbot.Lifelong Engagement in Sport and Physical ActivityParticipation and Performance across the Lifespan. (1. Edition). Routledge, 2013. |

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|  |  **COURSE SYLLABUS** |
| **WEEK** |  **DATE** | **SUBJECTS/TOPICS** |
| 1 |  | Physical activity / exercise and sports, and the type and duration of exercise concepts. |
| 2 |  |  The effects of physical activity on health |
| 3 |  | Complications of phsical inactivity |
| 4 |  | Health problems caused by physical inactivity in the world and in our country |
| 5 |  | Assessment of physical activity |
| 6 |  | Physical fitness components for healthy life |
| 7 |  | Physcial activity in healthy adults |
| 8 |  | Mıd-term exam |
| 9 |  |  Physical activity in in children and adolescents |
| 10 |  | Physical activity in geriatrics |
| 11 |  | Physical activity in disabled individuals |
| 12 |  | Physical activity in diabetes mellitus |
| 13 |  | Physical activity in obesity |
| 14 |  | Physical activity in hypertension |
| 15 |  | Physical activity in infectious disease |
| 16 |  | Final exam |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** |  | **1** | **2** | **3** |
| 1 | Define basic concepts related to health and physical activity. |  |  | **X** |
| 2 | Be able to identifies common contraindications for lifelong physical activity and participation in sports. |  |  | **X** |
| 3 | Analyzes and evaluates the evidence-based literature on physical activity in the prevention of chronic diseases and behavioral and biomedical risk factors. |  |  | **X** |
| 4 | Be able to implements existing physical activity recommendations and guidelines to optimize physical activity and reduce sedentary lifestyle from all ages and adults with chronic diseases, behavioral and biomedical risk factors. |  |  | **X** |
| 5 | Be able to identifies and applies contraindicated physical inactivity for lifelong growth and development stages. |  | **X** |  |
| 6 | Be able to identifies injuries or conditions that commonly occur at certain stages of growth and development |  | **X** |  |
| 7 | Be able to develops 'Exercise Drug' model intervention to increase physical exercise levels and reduce sedentary behavior at the population and community level. |  |  | **X** |
| 8 | Be able to Identify and apply epidemiological evidence supporting physical activity in the prevention and treatment of chronic disease. |  | **X** |  |
| 9 | Develops exercise program for healthy individuals. |  | **X** |  |
| 10 | Develops an exercise program for disabled and unhealthy individuals. |  |  | **X** |
| 11 | Understands the importance of individual planning of physical activity. |  | **X** |  |
| 12 | Explain the importance of physical activity in different age groups. | **X** |  |  |
| 13 | Explain the effects of physical activity on healthy life. |  | **X** |  |

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| **Instructor Name****Sign**DOÇ. DR.EBRU TURAN KIZILDOĞAN |  **Date** |

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| **COURSE CODE** | **523304205** | **DEPARTMENT** | **PHYSIOTHERAPY AND REHABILITATION** |
| **COURSE NAME** | EXERCISE AND BODY SYSTEMS PHYSIOLOGY II |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Asst Prof. Dr. Erdem ATALAY | Turkish | **Technical** | **Medical** | **Other (…)** |
|  | **X** |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | **X** |  |  |

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| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring **X** | **3** | **0** | **0** | **3** | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **30** |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) | **1** | **20** |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (Written Exam) | **1** | **50** |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  | **X** |  |  |
| **PREREQUISITE(S)** | To have succesfully completed the Human Physiology at the undergraduate level |
| **COURSE CONTENT** | Nutritional support, environmental conditions and aerobic and anaerobic exercise tests as well as physiological responses of human body systems to exercise. |
| **COURSE AIMS** | It is aimed to learn the responses of the respiratory and immune system to exercise, the effects of environmental factors on exercise performance, and aerobic and anaerobic exercise tests. |
| **COURSE OBJECTIVES** | Physiological responses during exercise and environmental factors affecting these responses and to learn the evaluation of athlete performance. |
| **TEXTBOOK(S)** | Kraemer WJ. Fleck SJ. Deschenes MR. Exercise PhysiologyEhrman JK. Kerrigan DJ. Keteyian SJ. Advanced Exercise PhysiologyMcArdle WD, Katch FI and Katch VL. Exercise Physiology: Nutrition, Energy, and Human PerformanceGuyton AC. and Hall JE. Textbook of Medical Physiology |
| **REFERENCES** | Related articles, lecture notes and various visual materials obtained from the internet will be presented to the students during the lesson. |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Exercise and Gastrointestinal System |
| **2** |  | Pulmonary Exercise Physiology |
| **3** |  | Exercise and Lung Functions |
| **4** |  | Exercise and the Immune System |
| **5** |  | Aerobic Strength Test and Training Fundamentals |
| **6** |  | Anaerobic Strength, Power and Range of Motion |
| **7** |  | Exercise Tests for Health and Physical Fitness |
| **8** |  | MID-TERM EXAM |
| **9** |  | Nutritional Support for Exercise |
| **10** |  | Ergogenics in Exercise and Sport |
| **11** |  | Environmental Conditions and Exercise Performance |
| **12** |  | Aerobic Training and Strength Training for Health and Performance |
| **13** |  | Exercise and Special Populations |
| **14** |  | Article Discussion |
| **15** |  | Article Discussion |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | **X** |
| **2** | ask scientific questions and form hypothesis |  | **X** |  |
| **3** | search and interpret scientific literature |  |  | **X** |
| **4** | design and conduct experiments as well as analyze and interpret the data |  | **X** |  |
| **5** | learn how to use the experimental equipment effectively |  | **X** |  |
| **6** | function on multi-disciplinary teams |  |  | **X** |
| **7** | identify, formulate, and solve medical problems |  |  | **X** |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | **X** |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  | **X** |  |
| **10** | use effective written and oral communication/presentation skills |  | **X** |  |
| **11** | get an understanding of professional and ethical responsibility |  | **X** |  |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | **X** |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | **X** |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **X** |  |

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| --- | --- |
| **INSTRUCTOR NAME** | **DATE** |
| Asst. Prof Dr. Erdem ATALAY |  |

|  |  |  |  |
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| **COURSE CODE** | **523304206** | **DEPARTMENT** | **PHYSIOTHERAPY AND REHABILITATION** |
| **COURSE NAME:** | LOWER EXTREMITY SPORTS INJURIES |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Asst Prof. Dr. Erdem ATALAY | Turkish | **Technical** | **Medical** | **Other (…)** |
|  | **X** |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | **X** |  |  |

|  |  |  |
| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring  | **3** | 0 | 0 | **3** | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | **1** | **30** |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) | **1** | **20** |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project |  |  |
| Oral Exam |  |  |
| Other (Written Exam) | **1** | **50** |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  | **X** |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Clinical evaluation, diagnosis and sportive rehabilitation processes of lower extremity sports injuries will be covered. |
| **COURSE AIMS** | To develop clinical knowledge about the diagnosis and treatment of lower extremity injuries in athletes. |
| **COURSE OBJECTIVES** | After the completion of this lesson, it is aimed to improve the knowledge of the students about the diagnosis, treatment and sports rehabilitation of upper extremity sports injuries. |
| **TEXTBOOK(S)** | Burkner P, Khan K. Clinical Sports MedicineMiller MD, Thompson SR. Delee and Drez's Orthopedic Sports MedicineSaka T, Clinical Sports Medicine |
| **REFERENCES** | Related articles, lecture notes and various visual materials obtained from the internet will be presented to the students during the lesson. |

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| --- |
| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Approach to Hip Pain |
| **2** |  | Approach to Groin Pain |
| **3** |  | Approach to Anterior Thigh Pain |
| **4** |  | Approach to Posterior Thigh Pain |
| **5** |  | Acute Knee Injuries |
| **6** |  | Anterior Knee Pain |
| **7** |  | Approach to Hip Pain |
| **8** |  | MID-TERM EXAM |
| **9** |  | Approach To Leg Pain |
| **10** |  | Approach To Calf Pain |
| **11** |  | Achilles Region Pain |
| **12** |  | Acute Ankle İnjuries |
| **13** |  | Ankle Pain |
| **14** |  | Foot Pain |
| **15** |  | Article Discussion |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | **X** |
| **2** | ask scientific questions and form hypothesis |  | **X** |  |
| **3** | search and interpret scientific literature |  |  | **X** |
| **4** | design and conduct experiments as well as analyze and interpret the data |  | **X** |  |
| **5** | learn how to use the experimental equipment effectively |  | **X** |  |
| **6** | function on multi-disciplinary teams |  |  | **X** |
| **7** | identify, formulate, and solve medical problems |  |  | **X** |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | **X** |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  | **X** |  |
| **10** | use effective written and oral communication/presentation skills |  | **X** |  |
| **11** | get an understanding of professional and ethical responsibility |  | **X** |  |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  | **X** |  |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | **X** |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **X** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Asst. Prof Dr. Erdem ATALAY |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSE CODE:** | 523304207 | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME:** | **DIABETIC FOOT REHABILITATION** |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Assist. Prof. Dr. Halil Hakan UYSAL | TURKISH | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | X |  |  |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring  | 3 | 0 | 0 | 3 | 7,5 | ELECTIVE |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  |  |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework | 3 | 45 |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | 1 | 55 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Diabetic foot problems, evaluation methods and rehabilitation applications. |
| **COURSE AIMS** | To know diabetic foot management, evaluation methods and orthoses used, to discuss in the light of literature, to make clinical choices. |
| **COURSE OBJECTIVES** | To understand diabetic foot problems, to learn rehabilitation approaches. |
| **TEXTBOOK(S)** | 1) Gülman B. Diyabetik Ayak. Otak Form Ofset Basım A.Ş. Samsun, 2001. |
| **REFERENCES** | 1.)Veves A, Giurini JM, Guzman RJ. The Diabetic Foot Medical and Surgical Management. 4th Edition, Humana Press, 2018.2.) Eleftheriadou I, Kokkinos A, Liatis S, et al. *Atlas of Diabetic Foot.* 3th Edition, Wiley-Blackwell, 2019. 3.) Şener G, Erbahçeci F. Protezler. Fizyoterapi ve Rehabilitasyon, Güncel Teknolojiler, Uygulamalar. Pelikan Yayınları, 3. Baskı. Ankara, 2015. |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Diabetes Mellitus and Epidemiology |
| **2** |  | Diabetic Foot Problems |
| **3** |  | Diabetic Foot Clinical Findings |
| **4** |  | Orthopedic Applications in Diabetic Foot Problems |
| **5** |  | Diabetic Foot Physiotherapy Rehabilitation |
| **6** |  | Diabetic Foot Evaluation |
| **7** |  | Diabetic Foot Care |
| **8** |  | MID-TERM EXAM |
| **9** |  | Diabetic Foot and Shoes |
| **10** |  | Diabetic Foot Bracing |
| **11** |  | Diabetic Foot Amputations |
| **12** |  | Prosthesis Applications in Diabetic Patients |
| **13** |  | Preparing Project |
| **14** |  | Design Development |
| **15** |  | Design Development |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | X |
| **2** | ask scientific questions and form hypothesis |  |  | X |
| **3** | search and interpret scientific literature |  |  | X |
| **4** | design and conduct experiments as well as analyze and interpret the data |  | X |  |
| **5** | learn how to use the experimental equipment effectively | X |  |  |
| **6** | function on multi-disciplinary teams |  |  | X |
| **7** | identify, formulate, and solve medical problems |  |  | X |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | X |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  | X |  |
| **10** | use effective written and oral communication/presentation skills |  |  | X |
| **11** | get an understanding of professional and ethical responsibility |  | X |  |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  | X |  |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | X |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | X |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Assist. Prof. Dr. Halil Hakan UYSAL | 23.09.2021 |

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| **COURSE CODE** | **523304208** | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME** | TECHNOLOGY BASED APPROACHES IN REHABILITATION |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Hilal Keklicek,Assoc Prof | English | **Technical** | **Medical** | **Other (…)** |
| x |  |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | x |  |  |

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| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring | 3 | 0 | 0 | 3 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | 0 | 0 |
| 2nd Mid-Term | 0 | 0 |
| Quiz | 0 | 0 |
| Homework | 2 | 30 |
| Project | 1 | 20 |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz | 1 | 10 |
| Homework | 2 | 30 |
| Project | 1 | 10 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  | **1** |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Objectives, types, usage areas, advantages and disadvantages of rehabilitation technologies, design. |
| **COURSE AIMS** | To be able to recognize the types of technologies used in rehabilitation and the profiles they are used in, and to make clinical choices in the light of the literature. |
| **COURSE OBJECTIVES** | Recognizing the advantages and disadvantages of rehabilitation technologies, to provide case-method matching, to design. |
| **TEXTBOOK(S)** | Tarakçı E. Rehabilitasyonda Teknoloji  |
| **REFERENCES** | Sandrini G.Advanced Technologies for the Rehabilitation of Gait and Balance Disorders, Reinkensmeyer D. Neurorehabilitation Technology. Pubmed,Pedro,Medline,Cinahl,Ebsco, Ulakbim, Google schoolar |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Introduction to rehabilitation technology, general concepts |
| **2** |  | Result measurement and evaluation technologies in rehabilitation |
| **3** |  | Result measurement and evaluation technologies in rehabilitation |
| **4** |  | Overview of educational technologies in rehabilitation |
| **5** |  | Virtual reality  |
| **6** |  | Augmented reality |
| **7** |  | Exam preparation, general review |
| **8** |  | MID-TERM EXAM |
| **9** |  | Sensor-based training tools |
| **10** |  | Game technologies and rehabilitation |
| **11** |  | Robotic applications |
| **12** |  | Assistive device technologies |
| **13** |  | Design development |
| **14** |  | Design development |
| **15** |  | Exam preparation, general review |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | x |
| **2** | ask scientific questions and form hypothesis |  | **x** |  |
| **3** | search and interpret scientific literature |  |  | x |
| **4** | design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | function on multi-disciplinary teams | **x** |  |  |
| **7** | identify, formulate, and solve medical problems |  |  | x |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | use effective written and oral communication/presentation skills |  |  | x |
| **11** | get an understanding of professional and ethical responsibility |  |  | x |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Hilal Keklicek,Assoc Prof. |  |

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| **COURSE CODE** | **523304209** | **DEPARTMENT** | Physiotherapy and Rehabilitation |
| **COURSE NAME** | Movement Analyses in Neurological Disorders |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Hilal Keklicek, Assoc. Prof. | Turkish | **Technical** | **Medical** | **Other (…)** |
| x |  |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | x |  |  |

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| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring  | 4 | 0 | 0 | 4 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term | 0 | 0 |
| 2nd Mid-Term | 0 | 0 |
| Quiz | 0 | 0 |
| Homework | 2 | 30 |
| Project | 1 | 20 |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz | 1 | 10 |
| Homework | 2 | 30 |
| Project | 1 | 10 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  | **1** |  |  |
| **PREREQUISITE(S)** | - |
| **COURSE CONTENT** | Concept of normal and abnormal movement, components of normal and abnormal movement, neurological diseases and their symptoms, movement analysis methods |
| **COURSE AIMS** | To examine the concept of movement in the light of the literature, to define movement disorders specific to neurological diseases, and to gain the ability to choose the appropriate movement analysis method. |
| **COURSE OBJECTIVES** | Knowing the factors that define normal movement and comparing it with the movement models revealed in movement disorders, recognizing and choosing the most appropriate measurement model for the target. |
| **TEXTBOOK(S)** | Knursen H. Biomechanical Basis of Human Movement . Neumann D. Kinesiology of the Musculoskeletal System |
| **REFERENCES** | Inal S. Vücut Biyomekaniği. Akalan&Temelli, Temel-Kinezyomekanik Klinik Örnekli Anlatım. Kılınç M. Nörolojik Fizyoterapide Ölçme ve Değerlendirme Yöntemleri , pubmed, Medline, Pedro, CINAHL, Google schoolar  |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Introduction to the concept of motion |
| **2** |  | Formation of normal movement, Concept of normal and abnormal movement |
| **3** |  | walking biomechanics |
| **4** |  | Motion analysis methods |
| **5** |  | Motion analysis methods |
| **6** |  | Tone disorders and their relationship with movement |
| **7** |  | Exam preparation, general review |
| **8** |  | MID-TERM EXAM |
| **9** |  | Selection of SVO, symptoms and movement analysis methods |
| **10** |  | Multiple Sclerosis, symptoms and selection of movement analysis methods |
| **11** |  | Parkinsonism, symptoms and selection of movement analysis methods |
| **12** |  | Developmental pediatric neurological diseases, symptoms and selection of movement analysis methods |
| **13** |  | Demyelinating Polyneuropathies, symptoms and selection of movement analysis methods |
| **14** |  | Project planning |
| **15** |  | Exam preparation, general review |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | x |
| **2** | ask scientific questions and form hypothesis |  | **x** |  |
| **3** | search and interpret scientific literature |  |  | x |
| **4** | design and conduct experiments as well as analyze and interpret the data |  |  | x |
| **5** | learn how to use the experimental equipment effectively |  | **x** |  |
| **6** | function on multi-disciplinary teams | **x** |  |  |
| **7** | identify, formulate, and solve medical problems |  |  | x |
| **8** | use computer effectively both in conducting the experiments and analyzing the data |  | **x** |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  |  | x |
| **10** | use effective written and oral communication/presentation skills |  |  | x |
| **11** | get an understanding of professional and ethical responsibility |  |  | x |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | x |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | x |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  | **x** |  |

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| **INSTRUCTOR NAME** | **DATE** |
| Hilal Keklicek, Assoc, Prof |  |

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| --- | --- | --- | --- |
| **COURSE CODE:** | **523304210** | **DEPARTMENT** | PHYSIOTHERAPY AND REHABILITATION |
| **COURSE NAME:** | **PRINCIPLES OF ORTHOSIS IN ADULTS** |
| **INSTRUCTOR NAME** | **COURSE LANGUAGE** | **COURSE CATAGORY** |
| Assist. Prof. Dr. Halil Hakan UYSAL | TURKISH | **Technical** | **Medical** | **Other (…)** |
|  | X |  |

**COURSE LEVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **PROPAEDEUTIC** | **M.SC.** | **Ph.D.** | **COURSE OF PROVINCE** |
|  | X |  |  |

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| --- | --- | --- |
| **SEMESTER** | **WEEKLY COURSE PERIOD** | **COURSE OF** |
| **TEORIC** | **PRACTICE** | **LABORATORY** | **CREDIT** | **ECTS** | **TYPE** |
| Spring  | 3 | 0 | 0 | 3 | 7,5 | Elective |
|  |
| **ASSESMENT CRITERIA** |
| **MID-TERM EXAM** | **Activity** | **Quantity** | **Percentage (%)** |
| 1st Mid-Term |  |  |
| 2nd Mid-Term |  |  |
| Quiz |  |  |
| Homework | 3 | 45 |
| Project |  |  |
| Oral Exam |  |  |
| Other (………) |  |  |
| **FINAL EXAM** | Quiz |  |  |
| Homework |  |  |
| Project | 1 | 55 |
| Oral Exam |  |  |
| Other (Written Exam) |  |  |
| **MAKE-UP EXAM** | **Oral** | **Written** | **Oral and Written** | **Multiple Choice** |
|  |  |  |  |
| **PREREQUISITE(S)** |  |
| **COURSE CONTENT** | Lower extremity orthoses, upper extremity orthoses, spinal orthoses. |
| **COURSE AIMS** | To evaluate the types of orthoses used in adults, to evaluate the situations in which they are used, to discuss with the literature, to make clinical choices. |
| **COURSE OBJECTIVES** | To know orthoses, to have information about their materials and application forms, to be able to design. |
| **TEXTBOOK(S)** |  Bek N. Ortezler. Hipokrat Yayıncılık. Ankara, 2020. |
| **REFERENCES** | 1. Chui KK,Jorge M, Yen SC,Lusardi M.*Orthotics and Prosthetics in Rehabilitation.* 4rd Edition, Elsevier Saunders, 2019.
2. Lusardi M, Jorge M, Nielsen C.*Orthotics and Prosthetics in Rehabilitation.* 3rd Edition, Elsevier Saunders, 2013.
3. May BJ, Lockard MA. *Prosthetics & Orthotics in Clinical Practice: A Case Study Approach.*Davis Company, 2011.

4.) Hsu JD, Michael JW, Fisk JR. *AAOS* *Atlas of Orthoses and Assistive Devices.* 4th Edition, Mosby Elsevier, 2008.  |

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| **COURSE SYLLABUS** |
| **WEEK** | **DATE** | **SUBJECTS/TOPICS** |
| **1** |  | Foot Deformities and Orthoses in the Elderly |
| **2** |  | Characteristics of Adult Footwear |
| **3** |  | Ankle-Foot Orthoses |
| **4** |  | Knee Problems and Orthoses in Adults |
| **5** |  | Spine Problems in Adults |
| **6** |  | Spinal Orthoses |
| **7** |  | Upper Extremity Orthoses |
| **8** |  | MID-TERM EXAM |
| **9** |  | Use of Orthotics in Neurological Diseases |
| **10** |  | Use of Orthotics in Neurological Diseases |
| **11** |  | Use of Orthotics in Orthopedics and Traumatology |
| **12** |  | Use of Orthotics in Rheumatic Diseases |
| **13** |  | Preparing Project |
| **14** |  | Design Development |
| **15** |  | Design Development |
| **16** |  | FINAL EXAM |

**PROGRAM QUTCOMES**

Place choose never(1), few(2) or many(3) regarding your course

|  |  |  |  |
| --- | --- | --- | --- |
|  | **1** | **2** | **3** |
| **1** | gather as well as apply knowledge of health sciences |  |  | X |
| **2** | ask scientific questions and form hypothesis |  |  | X |
| **3** | search and interpret scientific literature |  |  | X |
| **4** | design and conduct experiments as well as analyze and interpret the data |  | X |  |
| **5** | learn how to use the experimental equipment effectively | X |  |  |
| **6** | function on multi-disciplinary teams |  |  | X |
| **7** | identify, formulate, and solve medical problems |  |  | X |
| **8** | use computer effectively both in conducting the experiments and analyzing the data | X |  |  |
| **9** | understand the impact of experimental solutions on national and international sciences |  | X |  |
| **10** | use effective written and oral communication/presentation skills |  |  | X |
| **11** | get an understanding of professional and ethical responsibility |  | X |  |
| **12** | get a recognition of the need for, and an ability to engage in lifelong learning |  |  | X |
| **13** | other (get an understanding of basic concepts of medical education) |  |  | X |
| **14** | other (get an understanding of approaching to ethical problems with taking basic concepts to center) |  |  | X |

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| **INSTRUCTOR NAME** | **DATE** |
| Assist. Prof. Dr. Halil Hakan UYSAL | 23.09.2021 |