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| **Approval date:**  |  | **Philadelphia University** |
|  | **Faculty: Allied Medical Sciences**  |
| **Credit hours: 2 + 1 practical** | **Department: Physical Therapy**  |
| **Bachelor**  | **Course Syllabus** | **Academic year 2024/2025** |

**Course information**

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| --- | --- | --- |
| **Co /Pre-requisite**  | **Course title** | **Course#** |
| **1120250** | **Neurological Physical Therapy - II** | **1120451** |
| **Room #** | **Class time** | **Course type** |
| **61209** | **Sat, Mon****9.15 – 10.05** | ☐ University Requirement ☐ Faculty Requirement ☒ Major Requirement ☐ Elective ☐ Compulsory |

|  |  |
| --- | --- |
| **Hours No.\***  | **Course Level\*** |
| **2** | 6th ☒ 7th  8th  9th |

**Instructor Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Office No.** |  **Phone No.** |  **Office Hours** |  **E-mail** |
| **Assistant****Professor** **Dr.Atef M. Doweir** | **61-215** | **2336** |  **-Sat (12:15-14:15)** | **adoweir@philadelphia.edu.jo** |
| **Monday(12:15-16:00)** |

**Course Delivery Method**

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| **Course Delivery Method** |
|  **☒ Physical ☐ Online ☐ Blended** |
| **Learning Model** |
| **Physical** | **Asynchronous** | **Synchronous** | **Precentage**  |
| **100%** |  |  |

**Course Description**

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| * This course is the second of two courses which provide students with in-depth exploration of the assessment and intervention procedures used with clients severing from various neurological pathologies seen in adults. In neurological physical therapy II students will apply knowledge of anatomy, physiology, pharmacology, and pathology of the human nervous system to the evaluation and treatment planning for patients with. Pain Pathophysiology, Assessment and Management, Traumatic Spinal Cord Injury

Balance Disorders, Cerebellar Dysfunction, Motor Neuron Diseases, Guillain-Barré Syndrome Peripheral Nerve Injury, Peripheral Neuropathy, Dementia and Alzheimer Disease. Cases will be used as the basis for discussion and problem-solving sessions on evaluation, goal setting and planning the course of treatment for the various neurological conditions studied. The course will run in parallel with course 1120452 neurological physical therapy II lab. Laboratory sessions will focus on hands-on evaluation and management techniques for the conditions discussed in the course. |

**Course Learning Outcomes**

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| --- | --- | --- | --- |
| **Corresponding Program outcomes** | **Outcomes** | **Number** |  |
| **Knowledge** |
| **Kp3** | Demonstrate entry level knowledge in evaluating and managing patients/clients with various neurological problems. | **K1** | **1** |
| **Kp3** | Develop an appropriate plan of care in collaboration with all interested parties. | **K2** | **2** |
| **Kp3** | Participate in patient education activities as they relate to overall functioning, safety and wellness. | **K3** | **3** |
| **Skills** |
| **Sp1** | Utilize the process of clinical decision-making to help formulate an evaluation, plan of care and prognosis for the patient. | **S1** | **4** |
| **Competencies** |
| **Cp3** | Properly use and interpret standardized outcomes measures for the patient with neurological involvement | **C1** | **5** |

**Learning Resources**

|  |  |
| --- | --- |
| [Fulk G and](https://www.amazon.com/s/ref%3Ddp_byline_sr_book_1?ie=UTF8&field-author=George+Fulk+PT++PhD&text=George+Fulk+PT++PhD&sort=relevancerank&search-alias=books) [Chui K](https://www.amazon.com/s/ref%3Ddp_byline_sr_book_2?ie=UTF8&field-author=Kevin+Chui+PT++DPT++PhD&text=Kevin+Chui+PT++DPT++PhD&sort=relevancerank&search-alias=books) (2024) O'Sullivan & Schmitz's Physical Rehabilitation. 8th edition. F.A. Davis Company. | Course textbook |
| Lazaro RT, Renia-Guerra SG and Quiben MU (2020) Umphred's Neurological Rehabilitation. 7th edition. Elsevier | Supporting References |
| [Home (neuropt.org)](https://www.neuropt.org/) | Supporting websites  |
| **☒Classroom ☐** **laboratory ☒Learning platform ☐Other**  | Teaching Environment  |

**Meetings and subjects’ timetable**

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| --- | --- | --- | --- |
| **Week** |  **Topic** | **Learning Methods** | **Learning Material**  |
| **Week 1****12, 14 October** | **Course syllabus, Vision,****Mission, Aim and LO of the Program****-introduction**  | **Lecture** | **Vision, Mission,****Aim and ILOs of the Program** |
| **Week 2****19,21 October** | **Assessment sheet**  | **Lecture** |

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| **Pre-prepared Presentations Text book reference** |

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| **Week 3****26, 28 October** | **Spinal cord injuries I** | **Lecture &****Problem solving based learning** | **Pre-prepared Presentations Text book reference** |
| **Week 4****2,4 November** | **Spinal cord injuries II** | **Lecture** | **Pre-prepared Presentations Text book reference** |
| **Week 5****9,11 November** | **Quiz 1****Spinal cord injuries III** | **Lecture &****Problem solving based learning** | **Pre-prepared Presentations Text book reference** |
| **Week 6****16,18****November** | **Spinal cord injuries IV** | **Lecture** | **Pre-prepared Presentations Text book reference** |
| **Week 7****23,25 November** | **Revision** | **Lecture** | **Pre-prepared Presentations Text book reference** |
| **Week 8** | **Midterm** | **Exam** | **Exam** |
| **Week 9****7,9 December** | **Ataxia** **Assignment** | **Lecture** | **Pre-prepared Presentations Text book reference** |
| **Week 10****14,16****December** | **Motor neuron diseases** **Quiz 2** | **Lecture &****Problem solving based learning** | **Pre-prepared Presentations Text book reference** |
| **Week 11****21, 23****December** | **Peripheral Nerve Injury and Peripheral Neuropathy** | **Lecture** | **Pre-prepared Presentations Text book reference** |
| **Week 12****28, 30 December** | **Guillain-Barré Syndrome** | **Lecture &****Problem solving based learning** | **Pre-prepared Presentations Text book reference** |
| **Week 13****4,6 January** | **Dementia and Alzheimer Disease** | **Lecture &****Problem solving based learning** | **Pre-prepared Presentations Text book reference** |
| **Week 14****11, 13 January** | **Pain Pathophysiology, Assessment and Management** | **Lecture** | **Pre-prepared Presentations Text book reference** |
| **Week 15****18, 20 January** | **Revision** | **Lecture** | **Pre-prepared Presentations Text book reference** |
| **Week 16** | **Final exam** |  |  |

\* Includes: Lecture, flipped Class, project- based learning, problem solving based learning, collaborative learning

**Course Contributing to Learner Skill Development**

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| Using Technology  |
| Students will be introduced to navigating and reading professional websites.  |
| Communication skills  |
| Students will be introduced to communicate with patient/client regarding assessment outcomes and therapeutic program |
| Application of concepts learned |
| Students will be introduced to interpretation and integration of finding from multiple sources |

**Assessment Methods and Grade Distribution**

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| --- | --- | --- | --- |
| **Link to Course Outcomes** | **Assessment Time****(Week No.)** | **Grade Weight** | **Assessment Methods** |
| **K1, K2, K3** | **See course outline** | **30%** | **Mid Term Exam** |
| **S1, C1** | **See course outline**  | **30%** | **Various Assessments \*** |
| **K1, K2, K3, S1, and C1** | **Will be announced** | **40 %** | **Final Exam** |
|  |  | **100%** | **Total** |

\* Includes: 2 quizzes (10% each, see course outline for schedule, the highest quiz will be taken) and assignments (20%, see below for description and due date).

**Alignment of Course Outcomes with Learning and Assessment Methods**

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| --- | --- | --- | --- |
| **Assessment Method\*\***  | **Learning Method\*** | **Learning Outcomes** | **Number**  |
|  **Knowledge** |
| Exam and quizzes | Lecture, Discussion | Demonstrate entry level knowledge in evaluating and managing patients/clients with various neurological problems. | **K1** |
| Exam and quizzes | Lecture, Discussion | Develop an appropriate plan of care in collaboration with all interested parties. | **K2** |
| Exam and quizzes | Lecture, Discussion, case scenarios | Participate in patient education activities as they relate to overall functioning, safety and wellness. | **K3** |
|  **Skills**  |
| Exam, quizzes, and assignment | Lecture, case scenarios | Utilize the process of clinical decision-making to help formulate an evaluation, plan of care and prognosis for the patient. | **S1** |
|  **Competencies** |
| Exam, quizzes, and assignment | Lecture, case scenarios | Properly use and interpret standardized outcomes measures for the patient with neurological involvement | **C1** |

**Assignment**

The course instructor will provide students with case scenarios about the neurological conditions discussed in the course. Students are requested to answer the questions about cases provided within 5 – 7 days after the instructor posts the cases on the Moodle. Late submission will not be accepted. Cases will be discussed in the classroom or the lab after the submission deadline. **The use of AI sites in anyway to answer the questions will be considered cheating, actions will be taken against violators.**

**Course Polices**

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| --- | --- |
|  **Policy Requirements** | **Policy** |
| The minimum passing grade for the course is (50%) and the minimum final mark recorded on transcript is (35%). | **Passing Grade** |
| * Missing an exam/ quiz without a valid excuse will result in a zero grade to be assigned to the exam/ quiz.
* A Student who misses an exam or scheduled assessment, for a legitimate reason, must submit an official written excuse within a week from the exam or assessment due date.
* A student who has an excuse for missing a final exam should submit the excuse to the dean’s office within three days of the missed exam date.
 | **Missing Exams** |
| The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to 4.5 hours of lectures days (Sun, Tus). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory excuse accepted by the dean of the faculty, she/he will be prohibited from taking the final exam and the grade in that course is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college, then withdrawal grade will be recorded. | **Attendance**  |
| Philadelphia University pays special attention to the issue of academic integrity, and the penalties stipulated in the university's instructions are applied to those who are proven to have committed an act that violates academic integrity, such as: **cheating, plagiarism** (academic theft), collusion, and violating intellectual property rights. | **Academic Honesty**  |

**Program Learning Outcomes to be assessed in this Course**

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| --- | --- | --- | --- | --- |
| **Target Performance level** | **Assessment Method**  | **Course Title** | **Learning Outcome**  | **Number**  |
| 75% of students will get 60% or more of the total score | Exams, Quizzes | Neurological Physical Therapy - II | Develop an individualized appropriate plan of care based on information collected and assessment performed for each patient/ client. | **Kp3** |
| 75% of students will get 60% or more of the total score | Exams, Quizzes, Assignment | Neurological Physical Therapy - II | Develop critical analysis and decision-making skills and ability to integrate basic and clinical knowledge within an evidence-based framework. | **Sp1** |
| 75% of students will get 60% or more of the total score | Exams, Quizzes, Assignment | Neurological Physical Therapy - II | CP3: Perform assessments, develop treatment plans, and execute therapeutic interventions effectively. | **Cp3** |

**Description of Program Learning Outcome Assessment Method**

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| --- | --- |
| **Detailed Description of Assessment** | **Number** |
| **Short exams will be done on 1st year by clinical practice**  | **Kp3** |
| **Short exams will be done on 1st year by clinical practice**  | **Sp1** |
| **Short exams will be done on 1st year by clinical practice**  | **Cp3** |

**Good luck**