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| **Approval date:19/10/2022** |  | **Philadelphia University** |
|  | **Faculty: Allied Medical Sciences** |
| **Credit hours: 3** | **Department: Physical Therapy** |
| **Bachelor** | **Course Syllabus** | **Academic year 2022/2023** |

**Course information**

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| --- | --- | --- | --- | --- |
| **Co /Pre-requisite** | | **Course title** | | **Course#** |
| **Co.physiology,anatomy** | | **Pathophysiology for Allied Medical Sciences** | | **0910260** |
| **Room #** | **Class time** | | **Course type** | |
| **Hall 415** | **Sun-Tue**  **11.15- 12.45** | | University Requirement  Faculty Requirement  Major Requirement  Elective  Compulsory | |

**Instructor Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **E-mail** | **Office Hours** | **Phone No.** | **Office No.** | **Name** |
| **jmullaabed@philadelphia.edu.jo** | **11.15-2.00 Sun-Tue**  **1.00-3.00 Mon-Wed** |  | **915402** | ***Dr.Jamal Shareef Mulla-Abed*** |

**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 designed to provide the students with knowledge about disease & dysfunction cell injury including its causes, mechanisms, morphologic alterations and cellular death, adaptations of cellular growth and differentiation, Inflammation including its types, causes, morphologic features and mechanisms, tissue renewal, regeneration, and repair, hemodynamic disorders including edema, hyperemia, congestion, thrombosis, embolism infarction and shock, neoplasia including nomenclature and characteristics of benign and malignant neoplasms. The course also provides knowledge about diseases and dysfunctions of many systems, such as the musculoskeletal, neurologic, cardiovascular, renal, respiratory, hematology, endocrinology and gastrointestinal system. |

**Course Learning Outcomes**

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| --- | --- | --- | --- |
| **Corresponding Program outcomes** | **Outcomes** | **Number** |  |
| **Knowledge** | | |  |
| **KP1** | Build Knowledge on the abnormal organic KP1 disorders to previous obtained knowledge of Define pathology and disease | **K1** | **1** |
| **KP 1&2** | Describe the basic mechanism of organs disorders and the mechanisms of disease in relation to different organs. | **K2** | **2** |
| **KP1** | Understand and be able to define commonly used terms and vocabulary used to describe various aspects of disease (e.g. signs, symptoms, etiology, pathogenesis, manifestations, sequelae, prognosis. | **K3** | **3** |
| **Skills** | | |  |
|  | Describe pathological mechanisms underlying particular disease processes affecting particular organ systems/tissues (cell injury, inflammation, immunity, neoplasia, vascular disturbances (congestion, hyperemia, edema, thrombosis, ischemia, shock and hemorrhage). | **S1** | **4** |
| SP2 | Discuss the diseases affecting particular organ systems/tissues e.g. hematopoietic and lymphoid,  kidney and urinary tract, endocrine system, male and female genital tracts, lungs, breasts, gastrointestinal tract, hepatobiliary system, cardiovascular system, central nervous system and musculoskeletal system. | **S2** | **5** |
| SP1 | Illustrate and identify the different parts of the body using different resources from video and quiz cards | **S3** | **6** |
| **Competencies** | | |  |
| CP3, | Apply critical thinking of integrating pathology clinical consequence of different diseases. | **C1** | **7** |
| CP1 | Develop vocabulary of appropriate terminology to effectively communicate information related to pathology | **C2** | **8** |

**Learning Resources**

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| --- | --- |
| Pathophysiology, Wolters Kluwer, 4th editionKumar, Cotran and Robbins basic pathology 10th edition ***Pathology: Implications for the Physical Therapist, edition 5*** | Course textbook |
| Handouts prepared by the lecture | Supporting References |
| <http://evolve.elsevier.com/Goodman> | Supporting websites |
| **Classroom**  **laboratory Learning platform Other** | Teaching Environment |

**Meetings and subjects timetable**

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| --- | --- | --- | --- |
| **Learning Material** | **Learning Methods** | **Topic** | **Week** |
|  |  |  |  |
|  | Lecture  Discussion | Vision, mission and values of faculty  Introduction to the course syllabus | **1**  **23/10/2022** |
| Text book  Prepared slides | Asynchronous textbook reading  Video and discussion | Introduction to pathology  Cellular response to stress I | **25/10/2022** |
| Text book  Prepared slides | Lecture  video  discussion | Cellular response to stress II | **2**  **30/10/2022** |
| Text book  Prepared slides | Asynchronous text book reading  Case study | Inflammation I | **3**  **01/11/2022** |
| Text book | Video discussion, lecture | Inflammation II | **06/11/2022** |
| Text book  prepared slides | Asynchronous text book reading  Video  Case study discussion | Musculoskeletal system I | **4**  **08/11/2022** |
| Text book  prepared slides  Selected websites | Lecture  Group Discussion  problem solving based learning | Musculoskeletal system II | **13/11/2022** |
| Text book  Selected website | Asynchronous text book reading  Discussion | Musculoskeletal system III | **5**  **15/11/2022** |
| Text book  prepared slides | Lecture  Group discussion  Problem solving based learning | Neurologic system II | **20/11/2022** |
| Text book  Prepared slides | Asynchronous text book reading  Case study | Neurologic system II | **6**  **22/11/2022** |
| Text book  Prepared slides | Lecture  Case study  Group discussion | Neurologic system 3 | **27/11/2022** |
| Text book  Prepared slides | Asynchronous text book reading  Problem solving based learning | Cardiovascular system 1 | **7**  **29/11/2022** |
| Text book  Prepared slides | Group discussion  Lecture  Case study | Midterm exam | **04/12/2022** |
| Text book  Prepared slides | Asynchronous text book reading  Lecture  Students | Cardiovascular system II | **8**  **06/12/2022** |
| Text book  Prepared slides | Asynchronous text book reading  Case study | Cardiovascular system III | **11/12/2022** |
| Text book  Prepared slides | Lecture, discussion | Respiratory system I | **9**  **13/12/2022** |
| Text book  Prepared slides | Asynchronous text book reading  Case study | Respiratory system II | **18/12/2022** |
| Text book  Prepared slides | Collaborative learning  Lecture | Respiratory system III | **10**  **20/12/2022** |
| Text book  Prepared slides | Asynchronous text book reading | Immune system I | **25/12/2022** |
| Text book  Prepared slides |  | Immune system II | **11**  **27/12/2022** |
| Text book  Prepared slides | Asynchronous text book reading | Gastrointestinal system I | **03/01/2023** |
| Text book  Prepared slides | **Lecture and problem based learning** | Gastrointestinal system II | **12**  **08/01/2023** |
| Text book  Selected teaching material | Asynchronous text book reading | Endocrine system I | **10/12/2023** |
| Text book  Selected teaching material | **lecture** | Endocrine system II | **13**  **15/10/2023** |
| **Text book** | **lecture** | Renal system I | **17/01/2023** |
| **Selected websites**  **Text book** | **Lecture** | Renal system II | **14**  **22/01/2023** |
| **All previous topics** | **Presentation** | Hematologic system | **24/01/2023** |
| **Selected websites**  **Text book** | **Presentation** | Cancer | **15**  **29/01/2023** |
| **Selected websites**  **Text book** | **Presentation** | Cancer | **31/01/2023** |
| **Selected websites** |  | Revision | **16**  **05/02/2023** |

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

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Online session

**Course Contributing to Learner Skill Development**

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| Using Technology |
| Use data from different resources mainly textbook and scientific websites in different assigned activities Example: problem solving, collaborative learning, group discussion |
| Communication skills |
| confidence, respect, responsiveness, teamwork, competence |
| Application of concepts learnt |
| Apply understanding and description of anatomical organization of human syste |

**Assessment Methods and Grade Distribution**

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| --- | --- | --- | --- |
| **Link to Course Outcomes** | **Assessment Time**  **(Week No.)** | **Grade Weight** | **Assessment Methods** |
| **K1, K2, K3** | **7th week** | **30%** | **Mid Term Exam** |
| **S1,S2,C1,C2** | **Overall course duration** | **30%** | **Various Assessments \*** |
| **K1,K2,S2,S3,C1** | **16th week** | **40 %** | **Final Exam** |
|  |  | **100%** | **Total** |

\* includes: quiz, in class and out of class assignment, presentations, reports, videotaped assignment, group or individual projects.

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

**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 without a valid excuse will result in a zero grade to be assigned to the exam or assessment. * 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 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 six lectures days (Sun,Tus) and seven lectures (S,T,R). 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, s/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** |
| **95% of students get 60% of the exam results** | **Short exams** | **Pathology for physiotherapy** | The program will graduate students able recoginze the role of physiotherapy in the context of the health needs of the coummunity and national priorities in the health sector | **KP1** |
| **95% of students get 60% of the exam results** | **Short exams** | **Pathology for physiotherapy** | The program will graduate students able to acquire knowledge in basic medical sciences, various medical conditions and surgical treatments, and determine their impact on the individual and society. | **KP2** |