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| **Philadelphia University** |  | **Approval date:**  **10/9/2023** |
| **Faculty: Allied medical science** | **Issue: 1** |
| **Department: Physiotherapy** | **Credit hours: 3** |
| **Academic year 2023/2024** | **Course Syllabus** | **Bachelor** |

**Course information**

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| **Course#** | **Course title** | | **Co /Pre-requisite** | |
| **111014400** | **Human physiology** | | **111014100**  **Anatomy and Histology** | |
| **Course type** | | **Class time** | | **Room #** |
| * University Requirement ☒ Faculty Requirement   ☒ Major Requirement ☐ Elective ☐ Compulsory | | **11.10-12 Sun.- Tue**  **20.10-21.0 Sun. Blended**  **8.15-9.05 Sat. –Tue.**  **20.10-21.0 Mon.Blended** | | **9314**  **9414** |

**Instructor Information**

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| --- | --- | --- | --- | --- |
| **Name** | **Office No.** | **Phone No.** | **Office Hours** | **E-mail** |
| Dr.Jamal Shareef  Mulla Abed | **0915402** | **+9622637444**  **Ext .:2141** | **Mon**  **11.0-13.0**  **Sun**  **12.0-14.0**  **Sat.**  **11.0-13.0** | jmullaabed @philadelphia.edu.jo |

**Course Delivery Method**

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| **Course Delivery Method** | | | |
| * **Physical** ☐ **Online** ☒ **Blended** | | | |
| **Learning Model** | | | |
| **Percentage** | **Synchronous** | **Asynchronous** | **Physical** |
|  | 33.4% | **66.6%** |

**Course Description**

The course is designed to provide the students with knowledge about the normal functions and physiological mechanisms of various systems based on the anatomical and histological

correlation, including: physiology of integumentary system, bones and muscles, blood and cardiovascular system, digestive system, respiratory system, renal system, central nervous system and peripheral nervous system, physiology of endocrine glands, and finally Fluids and electrolytes.

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| **Number** | **Outcome** | **Corresponding Program Outcomes** | **Corresponding Competencies** |
| **Knowledge** | | | |
| **K1** | Develop Information about the functional principles of physiology ; and apply knowledge for mechanisms of action of the  body systems | KP1 | C1 |
| **K2** | Building further functional anatomical and histological relationship which have been studied previously by students | KP1 | C1 |
| **K3** | Make better understanding for pathophysiology | KP1 | C1 |
| **Skills** | | | |
| **S1** | Compare the normal physiological mechanisms with abnormal ones | SP3 | C9 |
| **S2** | The ability to analyze the normal physiological mechanisms to educate all  audiences by determining the most effective and enduring ways to impart information | SP6 | C12 |
| **S3** | Engage with groups work verbally and non verbally for doing certain scientific activity  in physiology and research Activity | SP6 | C12 |

**Learning Resources**

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| --- | --- | --- |
| Course textbook | Principles of Anatomy and Physiology, 16th Edition by Gerard J. Tortora, Bryan H. Derrickson, Publisher: Wiley, (2020), ISBN: ISBN: 978-1-119-66268-6 | |
| Supporting References | Memmler's structure and function of the human body ,12th edition By Cohen, B. J., & Hull, K. L. Jones & Bartlett Learning, publisher ‏ : ‎ Jones & Bartlett Learning(2019); ISBN-10 ‏ : ‎ 1975138929;ISBN-13 ‏ : ‎ 978-1975138929  Fundamental of Anatomy and Physiology. 10th edition. By Martini. Nath. Partholo meow. 2015. Pearson. | |
| Supporting websites | .freemedicaljournals.com |  |
|  |
| Teaching Environment | ☒**Classroom** ☐ **laboratory** ☒**Learning platform** ☐**Other** | |

**Meetings and subjects timetable**

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| --- | --- | --- | --- | --- |
| **Week** | **Topic** | **Learning Methods** | **Tasks** | **Learning Material** |
| **1** | Vision, mission and values of faculty Introduction to the course syllabus Introduction to physiology | Lecture discussion |  |  |
| **2** | Organization of human body  Homeostasis  Cellular level of organization | Lecture video discussion |  | Text book Prepared slides |
| **3** | Integumentary system | Lecture , |  | Supporting References |
| **4** | Skeletal system | Lecture | Quiz 1 | Supporting References |
| **5** | Muscular system |  |  | Supporting References |
| **6** | Cardiovascular system Blood & Circulation | Lecture , Collaboration learning | Quiz 2 | Text book prepared slides Selected websites |
| **7** | Cardiovascular system and circulation |  |  | Text book Prepared slides |
| **8** | Nervous system;organization of the nervous system,structural classification of neurons, | Lecture , | Quiz 3 | Text book Prepared  Slides |
| **9** | Central nervous system and cranial nerves | Lecture ,  Collaboration learning | Short report | Text book  Prepared  slides |
| **10** | Peripheral nervous system | Lecture ,  Problem | Quiz 4 | Text book Prepared slides |

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| --- | --- | --- | --- | --- |
| **11** | Respiratory system | Lecture ,  Collaboration learning |  | Supporting References |
| **12** | Digestive system | Lecture ,  Problem |  | Supporting References |
| **13** | Endocrine system | Lecture ,  Collaboration learning |  | Supporting References |
| **14** | Renal system and body fluids | Lecture ,  Problem solving basedlearning |  | Selected websites Text book |
| **15** | Renal system and body fluids | Lecture ,  Problem solving basedlearning | Short presentation | Text book Selected teaching material |
| **16** | Final exam |  |  |  |

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

**Course Contributing to Learner Skill Development**

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| --- |
| Using Technology |
| -Use PowerPoint or any other relevant programs for prepairing presentations  -Use varity of Electronic databases in searching for published data. |
| Communication skills |
| Report writing  -Oral presentation of selected topics |
| Application of concepts learnt |
| Students will apply most of the acquired knowledge from the theoretical lectures in the physiology  - The theoretical information also allows them to be able to perform a research & experimental work |

# Assessment Methods and Grade Distribution

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| --- | --- | --- | --- |
| **Assessment Methods** | **Grade** | **Assessment Time (Week No.)** | **Course Outcomes to be Assessed** |
| **Mid Term Exam** | **% 30** | 6 th | K1,K2,S1 |
| **Term Works\***  **Quiz 1**  **Quiz 2**  **Assignment** | **% 30**  **10%**  **10%**  **20%** | Continuous | S1-S3 |
| **Final Exam** | **% 40** | 16 th | K1-K3 S1-S3 |
| **Total** | **%100** |  |  |

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

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

**Note: Best marks of one quiz will be taken for course work marks.**

# Alignment of Course Outcomes with Learning and Assessment Methods

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| --- | --- | --- | --- | --- |
| **Number** | **Learning Outcomes** | **Corresponding Competences** | **Learning Method\*** | **Assessment Method\*\*** |
| **Knowledge** | | | | |
| **K1** | Develop Information about the functional principles of physiology ; and apply knowledge for mechanisms of action of the body systems | C1 | Lecture  Project Based Learning | Quizzes  Exam Home work |
| **K2** | Building further functional anatomical and histological relationship which have been studied previously by students | C1 | Lecture  Collaborative learning | Exam  Video assignments |
| **K3** | Make better understanding for pathophysiology | C1 | Lecture  Collaborative learning | Exam Home work |
| **Skills** | | | | |
| **S1** | Compare the normal physiological mechanisms with abnormal ones | C9 | Lecture | Quizzes Exam |
| **S2** | The ability to analyze the normal physiological mechanisms to educate all audiences by determining the  most effective and enduring ways to impart information | C12 | Lecture | Oral presentation |
| **S3** | Engage with groups work verbally and non-verbally for doing certain scientific activity in physiology and research Activity | C12 | Lecture | Oral presentation |

\*Include: lecture, flipped class, project-based learning, problem solving based learning, collaboration learning.

\*\* Include: quizzes, in-class and out of class assignments, presentations, reports, videotaped assignments, group or individual projects.

# Course Polices

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| **Policy** | **Policy Requirements** |
| **Passing Grade** | The minimum pass for the course is (50%) and the minimum final mark is (35%). |

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| --- | --- |
| **Missing Exams** | * Anyone absent from a declared semester exam without a sick or compulsive excuse accepted by the dean of the college that proposes the course, a zero mark shall be placed on that exam and calculated in his final mark. * Anyone absents from a declared semester exam with a sick or compulsive excuse accepted by the dean of the college that proposes the course must submit proof of his excuse within a week from the   date of the excuse’s disappearance, and in this case, the subject teacher must hold a compensation exam for the student. |

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|  | * Anyone absent from a final exam with a sick excuse or a compulsive excuse accepted by the dean of the college that proposes the material must submit proof of his excuse within three days from the date of holding that exam. |
| **Attendance** | The student is not allowed to be absent more than (15%) of the total hours prescribed for the course, which equates to six lecture days (n t) and seven lectures (days). If the student misses more than (15%) of the total hours prescribed for the course without a satisfactory or compulsive excuse accepted by the dean of the faculty, he is prohibited from taking the final exam and his result in that subject is considered (zero), but if the absence is due to illness or a compulsive excuse accepted by the dean of the college that The article is introduced, it is considered withdrawn from that article, and the provisions of withdrawal shall apply to it. |
| **Academic Integrity** | 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, intellectual property rights. |

Program Learning Outcomes to be assessed in this Course

# Program Learning Outcomes to be assessed in this Course

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| --- | --- | --- | --- | --- |
| **Number** | **Learning Outcome** | **Course Title** | **Assessment Method** | **Target Performance**  **level** |
| **Sp6** | Effectively communicate verbally and nonverbally when interacting with an individual group or organization | **Human physiology** | Oral presentation s | **75% of students have a minimum score 7 0ut**  **of 10** |

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# Description of Program Learning Outcome Assessment Method

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| --- | --- |
| **Number** | **Detailed Description of Assessment** |
| **Sp6** | **Oral presentation, each 5 students prepare special subject related to the course** |

**Rubric of the Assignment**

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Criteria** | **Weak (0-2)** | **Average (3-5)** | **Satisfactory (6-8)** | **Competent (9-10)** | **Score** |
| 1 | **Identify the main issue/ problem** | Unable to identify issue/problem in complex situations. Uncertain and unable to assess adequately. | Able to identify an issue/problem in a complex situation but less able to assess adequately. | Able to identify a problem with clarity but moderately able to assess and justify the situation. | Able to identify issue/ problem in a complex situation and able to assess and justify the situation. | \_\_\_ x 2 |
| 2 | **Analysis of the issue/problem** | Unable to analyze issue/problem in complex situations and uncertain and unable to assess adequately. | Able to analyze issue/ problem in a complex situation but less able to assess adequately. | Able to analyze issue/problem with clarity but moderately able to assess and justify the situation. | Able to analyze issue/problem in a complex situation and able to assess and justify the situation. | \_\_\_ x 2 |
| 3 | **Information management** | Poorly updated the information and lack of correlation | Minimum updated information and needs improvement | Adequate updated information lack of correlation | High correlation of information with current trends and advances | \_\_\_ x 2 |
| 4 | **Relevance and List of references** | No relevance and fails to use the references in a correct way | Sufficient relevance, partially fulfill the required number of references | Good relevance, fulfill and appropriate use of references | Excellent relevance and exceed the required number of references | \_\_\_ x 1 |

**Guidelines for Assignment**

1. Use Times New Roman. The font size for headings is 14 and the font size for text is 12. Use 1.5 lines of spacing between sentences in the text.
2. Limit your assignment to a word count of less than 500 words (2 pages).
3. Write your assignment carefully, with more focus on the criteria of the rubrics provided in the course syllabus.
4. Use this plagiarism checker website, [https://www.check-plagiarism.com/,](https://www.check-plagiarism.com/) or Turnitin to check for plagiarism in your assignment. It’s free. Take a screen shot of your plagiarism report and submit it along with your assignment. Plagiarism should be less than 20%.
5. Assignments with more than 20% plagiarism will not be accepted and copy from your peer group/uploading assignment in unsupported format will also result in zero grade.
6. On or before May 7, 2023, submit your assignment via MOODLE.
7. Penalty for late submission: 15% of your marks per day.

**Note: Assignment should be submitted through Moodle only. Other forms of submission will not be accepted for grading. It is your responsibility to sort out any problem arises during assignment submission through Moodle. Suggestion: Please avoid last minute submission.**

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