Course Title: Human Anatomy and Physiology

Aims and Objective

This introductory course is designed for students interested in human anatomy and physiology, with emphasis on the systems of the body and how they are interrelated to maintain homeostasis. This course provides a basic understanding of the anatomical structure of the human body from cellular to tissue level to organ systems. Students will study the normal human structure and physiology, and form-function relationships and coordination between the systems for maintenance of homeostasis will be described. Students will acquire the knowledge necessary to understand what the body is doing and how they can help to cope with many different situations. The course serves as a foundation for understanding the normal processes of life and prepares students to deal with diseases and pathophysiology. It is useful for students going in the nursing, biomedical sciences and biological sciences areas.

Intended Learning Outcomes of the Course

On completion of the course, students should be able to

ILO1. use basic technical terminology and language associated with anatomy and physiology;
ILO2. state the basic features and functions of cells and tissues forming the organs of human body;
ILO3. describe the structure of the organ systems of the human body;
ILO4. describe the relationship between organ systems structure and function;
ILO5. discuss the significance of selected organ systems including integumentary, musculoskeletal, respiratory, circulatory, neurological, gastrointestinal, hematological, endocrine, reproductive and renal systems in the maintenance of homeostasis;
ILO6. explain how human organ systems function and adapt through their anatomical design.

Syllabus

1. Basic physical science concepts for physiology
2. The Human Body: Cells, Tissues, Organs, Organ systems (Cytology and Histology)
3. The Nervous system
4. Anatomy of Thorax
5. The respiratory system: Mechanism of inspiration and expiration; Regulation of gas exchange
6. Cardiovascular and Lymphatic systems
7. Anatomy of the abdomen: The digestive system
8. The Endocrine system
9. The Renal system
10. The reproductive system
11. The integumentary system
12. The skeletal and muscular system
13. Anatomy and Function of eye and ear
14. The trunk demonstration
## Assessment

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<tr>
<th>Type of Assessment (Weighting)</th>
<th>Description</th>
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<tr>
<td>Continuous Assessment (50%)</td>
<td>Poster and Practical (20%)</td>
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<td>Written Test (30%)</td>
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<tr>
<td>Examination (50%)</td>
<td>Written Examination</td>
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### Pre-requisite(s)
Nil

### Required and Recommended Reading

**Recommended textbook:**

**References:**

Additional notes and useful library/web-site references will be provided for each topic.

16.06.2017