

**Histology Course Catalogue**

**2022-2023**

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| **College** | **Erbil Health Technical**  |
| **Department** | **Medical Laboratory Technology** |
| **Module Name** | **Histology** |
| **Module Code** | **HIS403** |
| **Semester** | **4** |
| **ECTS** | **6** |
| **Module type** | **Core** |
| **Weekly hours** | **10** |  |
| **Weekly hours (Theory)** | **(2)hr**  |  |
| **Weekly hours (Practical)** | **(8)hr**  |  |
| **Lecturer (Theory)** | **Dr. Layla Abdulstar & Dr.Hero Khalid** |
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| **Lecturer (Practical)** | **Dr. Layla Abdulstar, Dr.Hero Khalid &**  |
| **Email** | **layla.abdulsattar&@epu.edu.iq****hero.mustafa@epu.edu.iq****and****emanmrasul@gmail.com** |

**Course Book**

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| * **Course overview:**

Introductory course in human anatomy and physiology ,including the study of structure and function of cells ,tissue and the integumentary, muscular and nervous systems .introduce common human disease processes .Laboratory component includes anatomical studies using microscopy and dissection and the study of histologyl studies using microscopy and dissection and the study of physiological concepts via experimentation. |
| * **Course objective:**

The objective of this course is to offer an in-depth presentation of the function of the major organs and organ system of the human body. the course is designed to expand histological concept present in prerequisite courses .It is expected that the student understand the unique role of each organ and organ system in maintain health students should be able to describe the function of the distinctive cells that comprise each major organ and when appropriate define the role of physiological functional unit .case studies will be provided to enhance the integration of material presented in class.  |
| * **Student's obligation**

We have theory 2 hours ,practical 2 hours General advice:1. **keep up with material**.it is essential that you study the material within a reasonable period of time after lecture/lab .
2. 2-**Ask question.** regardless of whether you are in lecture or lab, it is essential that you ask question if you don’t understand a concept.
3. 3**-Read the book** .Make sure you read the appropriate chapter (s) before my lecture on a given topic .the description, tables, figure and diagram of concepts in the book will be most helpful in helping you learn the material.

**You have got 2 hours for lab…..use your time wisely.** Although not every lab session will go with full 2 hours .it is wise use the remaining time to do brush up on material that was covered during previous labs. Lab exams will cover a lot of material, so it is important that you fully utilize lab time whenever available to you. |
| * **Forms of teaching**

Lecture halls with data show equipment for lecture presentations, white board, overhead projector, posters.My philosophy is to provide you with a comfortable learning environment where you can not only listen, but speak. I want to be an enthusiastic teacher, share my love for science and inspire you to do your best in this course. I am open to hearing your concerns and needs and will respect your ideas. |
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| * **Specific learning outcome for theory:**

Upon completion of this course, the student will be able to: 1. Explain interrelationships among molecular, cellular, tissue, and organ functions in each system, and describe locations of major organs of each system
2. Explain the homeostatic mechanisms, controls, and specific functions of the systems of the human body.
3. Analyze and explain medical and health science-related scenarios of histology system disruptions.
4. Identify causes and effects of homeostatic imbalances.

**Learning Outcomes for Lab**Upon successful completion of this course, students will: 1. Locate and identify histological and anatomical structures.
2. Appropriately utilize laboratory equipment, such as microscopes, dissection tools, general lab ware, physiology data acquisition systems, and virtual simulations.
3. Work collaboratively to perform experiments.
4. Demonstrate the steps involved in the scientific method.
5. Communicate results of scientific investigations, analyze data and formulate conclusions.
6. Use critical thinking and scientific problem-solving skills, including, but not limited to, inferring, integrating, synthesizing, and summarizing, to make decisions, recommendations, and predictions.
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| * **Course Reading List and References‌:**
1. Basic histology =Book
2. Tortora & Derrickson- Principles of Anatomy and Physiology.

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| * **Course topics (Theory)**
 | **Week** | **No.hours** |
| Introduction and nervous tissue | **1** | **2** |
| Nervous system 1 | **2** | **2** |
| Nervous system 2 | **3** | **2** |
| circulatory system 1 | 4 | 2 |
|  Circulatory system 2 | 5 | 2 |
| Endocrine 1 | 6 | 2 |
| Endocrine 2 | 7 | 2 |
| Skin 1 | 8 |  2 |
| Skin 2 | 9 | 2 |
| Digestive system 1 | 10 | 2 |
| Digestive system 2 | 11 | 2 |
| lec. Male reproductive system 1 | 12 | 2 |
| Male reproductive system 2 | 13 | 2  |
| Female reproductive system 1 | 14 | 2 |
| female reproductive system 2  | 15 | 2 |
| * **Practical Topics**
 | **Week** | **No.hours** |
| Introduction and nervous tissues | 1 | 2 |
| Nervous system 1 | 2 | 2 |
| Nervous system 2 | 3 | 2 |
| circulatory system1 | 4 | 2 |
| circulatory system 2 | 5 | 2 |
| Endocrine 1 | 6 | 2 |
| Endocrine 2 | 7 | 2 |
| skin 1 | 8 | 2 |
| skin 2 | 9 | 2 |
| Digestive 1 | 10 | 2 |
| Digestive 2 | 11 | 2 |
| Male reproductive system 1 | 12 | 2 |
| Male reproductive system 2 | 13 | 2 |
| Female reproductive system 1 | 14 | 2 |
| Female reproductive system 2 |  15 | 2 |
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| * **External Evaluator**
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