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| **Description: C:\Users\lamasat.lamasat-PC\Pictures\Picture1.png**  |
| **Mutah University****Academic Development &Quality Assurance Center** |
| **COURSE PLAN SPECIFICATION FORM****Course: General Pathology****Faculty: Faculty of Medicine****Department: Microbiology and Pathology****Academic Year: 2020-2021** |

**A. Course Specification & General Information:**

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| * **Course Title:General Pathology**
 | * **University: Mutah University**
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| * **Code: 1504201**
 | * **College: Faculty of Medicine**
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| * **Credit Hours: 2 hours**
 | * **Department: Microbiology and Pathology**
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| * **Instructor: Department Teaching Staff**
 | * **Semester & Academic Year:**

**2020/2021 (1st semester)** |
| * **Course Level: 2nd year**
 | * **Office Hours: 32 hours**
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**B. Course description and Expected Learning Outcomes:**Pathology is a branch of medical sciences that studies the etiologies and the mechanisms that lead to the development of human diseases , along with identifying and differentiating the various structural alterations resulting from these diseases on the organs, tissues, andcellular level, in order to be able to diagnose the diseases. Therefore it serves to bridge basic medical disciplines with clinical sciences. Pathology as a whole is usually divided into two parts;

A. General pathology

B. Systemic pathology

General pathology covers the basic mechanisms of diseases whereas systemic pathology covers diseases as they occur in each organ system. Topics to be covered in this course include;

1. Cell injury and Adaptation

2. Inflammation and Repair (healing)

3. Hemodynamic disorders

4. Neoplasia

General pathology is necessary but not sufficient for understanding clinical medicine.

**C. Course objectives**

1. Knowledge:

1. To recognize the basic tissue reactions to different types of injuries.

2. To have knowledge about the etiology of major diseases.

3. To realize the pathogenesis of the diseases.

4. To be able to describe the gross morphological changes produced by diseases.

5. To be able to describe the microscopic changes in tissues and organs produced by various diseases.

6. To be able to describe the effects of the disease on the function of various organs.

7. To identify the outcome and possible complications of the disease

8. To Understand the broad lines of treatment.

2. Skills:

1. To evaluate the reflections of histopathological changes at cellular level on the function of various organs and systems in the body.

2. To gain the capability to analyze various manifestations of systemic diseases (signs and symptoms).

3. To be aware of the outcomes and possible complications of the disease.

**C. Course Plan Distribution& Learning Resources**

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| **Topics to be Covered** |  |
| **Lectures** |
| Introduction to pathology | 1 |
| Cell injury-Reversible cell injury |
| Cell injury - Irreversible cell injury/Necrosis | 2 |
| Cell injury - Apoptosis |
| Adaptation and Cellular accumulations  | 3 |
| Inflammation and Repair - Acute inflammation  |
| Inflammation and Repair - Chronic inflammation  | 4 |
| Inflammation and Repair - Granulomatous inflammation  |
| Inflammation and Repair - Healing regeneration | 5 |
| Inflammation and Repair - The connective tissue response |
| Inflammation and Repair - Fracture healing | 6 |
| Neoplasia - Benign and malignant tumors and nomenclature |
| Neoplasia - The hallmarks of malignancy  | 7 |
| Neoplasia - The Molecular Basis of cancer and the The hallmarks of malignancy  |
| Neoplasia - The Molecular Basis of cancer and the The hallmarks of malignancy  | 8 |
| Neoplasia - Carcinogenic Agents and Their Cellular Interactions |
| Neoplasia - Clinical Aspects of Neoplasia | 9 |
| Hemodynamic Disorders - Edema |
| Hemodynamic Disorders - Congestion | 10 |
| Hemodynamic Disorders - thrombosis |
| Hemodynamic Disorders - Embolism | 11 |
| Hemodynamic Disorders - Infarction |
| Hemodynamic Disorders - Shock | 13 |
| Practical session outlines |
| Introduction |  |
| Cell injury and Adaptation |  |
| Cell injury and Adaptation |  |
| Inflammation and Repair |  |
| Inflammation and Repair |  |
| Neoplasia |  |
| Neoplasia |  |
| Hemodynamic Disorders |  |
| Hemodynamic Disorders |  |
| Revision |  |
|  Learning resources* Robbins Basic Pathology, 10th Edition (2018): by Vinay Kumar, Abul K. Abbas and Jon C. Aster. ISBN: : 978-0-323-35317-5
* General and Systematic Pathology, 5th Edition (2009): by James C. E. Underwood and Simon S. Cross ISBN: 978-0443068881

Recommended websites: The Internet Pathology Laboratory for Medical Education https://webpath.med.utah.edu/ |

**D. Teaching strategies to be used to develop that knowledge**

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| Teaching strategies  | **No**  |
| 1. Lectures (16 lectures/1.5 hrs each/week)
 | **1** |
| 1. Practical classes (16 sessions/1hr each/week)
 | **2** |

**E. Methods of assessment**

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| **Proportion of Final Assessment** | **Assessment task**  | **No.** |
| 40 % of total mark  | Midterm Exam MCQs | 1. |
| 20 % of total mark | Final practical exam MCQs | 2. |
| 40 % of total mark | Final end-coarse assessment MCQ  | 3. |

**F. General Instructions:**

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| **Additional Notes, office hours, attendance policy, etc….** | **No**  |
| All university roles are adopted strictly by the department  | **1** |
| Unjustified absence during the course can lead to exemption from attending the exams  | **2** |