



A- COURSE TITLE, CODE, ACADEMIC YEAR:

Human Pathology (MLT-236) 1437-1438H

B- COURSE INFORMATION:

| Course Code | Course Title | Credit Units | | | Study Level | Pre-requisites |
|------------------------|-----------------|--------------|--------|-------------------------|-------------|---------------------|
| | | Total | Theory | Practical | | |
| MLT-236 | Human Pathology | 3 | 2 | 1 | 4th | ANAT-151 MLT-233 |
| Course Coordinator | | Extension | | Email Address | | |
| Dr. Mohamed M. Ghobara | | 3615 | | mghobara@taibahu.edu.sa | | |

C- COURSE DESCRIPTION:

This course aims to provide the students with the principles of general and systemic pathology topics relevant to medical technology students. It gives a brief idea about the basics of the process of cell injury, inflammation and healing. The different etiological factors of diseases (chemical, bacteriological, viral and physical) will be stated. The circulatory, genetic and growth disorders affecting the human body will be summarized as well as the pathological changes occurring in different organs. The course provides overview of the practice of surgical pathology and the general arrangement of the surgical pathology lab in a hospital.

D- COURSE OBJECTIVES:

By the end of this course the student should be able to:

1. Describe the basics of the process of cell injury, inflammation and healing.
2. Recall the different etiological factors of diseases (chemical, bacteriological, viral and physical).
3. Discuss the basics of circulatory, genetic and growth disorders affecting the human body.
4. Outline the pathological changes occurring in different organs.
5. Describe the practice of surgical pathology and the general arrangement of the surgical pathology lab in a hospital.

E- THEORY TOPICS:

| Week | Theory Topic | Contact Hours |
|------|---|---------------|
| 1 | Introduction to Pathology | 1 |
| 1-2 | Cell Adaptation, Cell Injury & Cell Death | 2 |
| 2-3 | Inflammation | 2 |
| 3 | Healing | 1 |
| 4 | Bacterial Infection | 1 |
| 4-5 | Circulatory Disturbances | 2 |



| | | |
|-------|--|---|
| 5-6 | Genetic Disorders | 2 |
| 6-7 | Growth Disorders | 2 |
| 7-8 | Cardiovascular Disorders | 2 |
| 8-9 | Respiratory Disorders | 2 |
| 9-10 | Alimentary Disorders Including Liver and Diabetes mellitus | 3 |
| 11 | Urinary Disorders | 1 |
| 11 | Male reproductive Disorders | 1 |
| 12 | Female reproductive Disorders (Including Breast) | 2 |
| 13 | Lymphatic Disorders | 1 |
| 13-14 | Disorders Diseases of the thyroid gland | 2 |
| 14-15 | Bone and CNS | 2 |
| 15 | Overview of the practice of surgical pathology and the general arrangement of the surgical pathology lab in a hospital | 1 |

F- PRACTICAL SESSIONS:

| Week | Practical Session | Contact Hours |
|-------|---------------------------------------|---------------|
| 1-2 | Microtechniques (Surgical pathology) | 4 |
| 3 | Cell Injury & Cell Death | 2 |
| 4-5 | Inflammation & Healing | 4 |
| 6 | Circulatory Disturbances | 2 |
| 7 | Growth Disorders | 2 |
| 8 | Cardiovascular Disorders | 2 |
| 9 | Respiratory Disorders | 2 |
| 10-11 | Alimentary Disorders | 4 |
| 12 | Urinary & Male Reproductive Disorders | 2 |
| 13 | Female Reproductive Disorders | 2 |
| 14-15 | Bone and Lymphatic Disorders | 4 |

G- ASSESSMENT TASKS:

| # | Type of assessment task | Week | Total Grades |
|---|-------------------------------|------------|--------------|
| 1 | Continuous assessment | Weeks 1-13 | 10% |
| 2 | Midterm examination (written) | Week 8 | 15% |



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|---|---------------------------|------------|-----|
| 3 | Assignment submission | Week 10 | 5% |
| 4 | Final practical exam | Week 16 | 30% |
| 5 | Final written examination | Week 18-19 | 40% |

H- LEARNING RESOURCES:

1- Required textbook:

- Kumar V, Abbas AK, Fausto N and Mitchl R(2013): Robbins Basic Pathology 9th ed, Elsevier Saunders.

2- Essential references:

- Walter J.B. and Talbot I.C., latest edition, Walter and Israel General Pathology, New York, Churchill Livingstone
- Mitchell R, Kumar V, Fausto N, Abbas AK and Aster J (2015): Robbins & Cotran Pathologic Basis of Disease, 9ed (Robbins Pathology

Notes:

- Assignments topics and requirements shall be announced by the end of Week-1, the deadline for submission is 12pm Thursday of Week-10 (each semester).
- Assignments and written assessment tasks must be verified against plagiarism, the maximum acceptable percentage is determined by the department (according to each level).
- Continuous assessments may include quizzes, internet searches, home-works, exercises, class activity, scratch cards, presentations, group work, etc.
- Practical exams may contain hands-on experiments, laboratory work, simulations, or demonstrations.
- Written exams will include multiple-choice questions (MCQ), short essay questions, and long essay questions.