Course Specifications

General Information

Course name	Radio Pathology
Course number	AMSR4297
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	2
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - To familiarize students with the correlation between radiological images and pathological findings.

2 - To provide students with the knowledge and skills to accurately interpret radiographic images in the context of specific diseases and conditions.

3 - To develop students ability to recognize and differentiate various pathological conditions based on radiological findings.

4 - To enhance students knowledge of different imaging modalities and their applications in diagnosing and monitoring diseases.

Intended Learning Outcomes

Knowledge and Understanding	* The underlying pathophysiology of various diseases and pathological conditions. * The correlation between radiological images and specific pathological findings.
Intellectual Skills	* Integrating clinical history, radiological findings, and pathological information to form comprehensive diagnoses.
Professional Skills	* Evaluating the appropriateness of different imaging modalities for specific clinical scenarios.
General Skill	* Analyzing and interpreting radiological images to identify pathological features.

Course Contents

1 - Upper limb fractures
2 - Lower limb fractures
3 - Musculoskeletal Radiopathology
4 - Neuroradiopathology
5 - Cardiac Radiopathology
6 - Thoracic Radiopathology
7 - Gastrointestinal Radiopathology
8 - Genitourinary Radiopathology
9 - Introduction to radiopathology: correlation between radiological images and pathology.
10 - Radiological findings in common pathological conditions (e.g., tumors, infections, inflammations).
11 - Radiological staging and monitoring of diseases.

Teaching and Learning Methods

1 - Lectures: In-depth presentations by the instructor on radiopathology.
2 - Case Studies: Analysis and interpretation of radiopathology correlated with clinical scenarios.
3 - Group Discussions: Interactive discussions on research papers and emerging trends in radiopathology.
4 - Independent Study: Assigned readings and research to deepen understanding of radiopathology cases.

Teaching and Learning Methods for the Disabled Students

1 - Providing accessible course materials in alternative formats (e.g., electronic).
2 - Ensuring physical accessibility to classrooms and practical sessions.
3 - Offering assistive technologies or tools for students with disabilities.
4 - Encouraging open communication to address individual needs and requirements

Students Assessment

Assessment Method	TIME	MARKS
First Quiz and Assignment	Week 3	10
Second Quiz and Assignment	Week 6	10
Midterm Exam	Week 8	30
Third Quiz and Assignment	Week 10	10
Final Exam	Week 15	40

Books and References

Essential books	Kowalczyk, N. (2021). Radiographic pathology for technologists. Mosby.
	Eisenberg, R. L., & Johnson, N. M. (2020). Comprehensive radiographic pathology E-book. Elsevier Health Sciences.
Recommended books	Gupta, A. K., Garg, A., & Sandhu, M. S. (2021). Comprehensive textbook of diagnostic radiology: Four volume set. Jaypee Brothers Medical Publishers.