

**Kafr Elsheikh university  
Faculty of medicine**



**Kafr Elsheikh university Hospital  
Radiology department**

## **Course specification for under graduate students**

**Radiology department  
Faculty of medicine  
kafr Elsheikh University**

**Code**

**Department of radiology**  
**Faculty of medicine, kafr Elsheikh University**  
**Course specification for under graduate**

**Academic year: 5<sup>th</sup> year of M.B.B.C**

**Lectures: 10      total: 15 hours**

**The goal of the course:**

**the general aims of the course are :**

- 1) to provide students with a certain amount of knowledge and skills in an integrated manner, necessary to make an essential radiologic framework of the general practitioner.
- 2) to make the students capable of determining the essential radiological approaches to deal with common emergencies.
- 3) to facilitate active learning of the radiological interpretation of various diseases affecting the different body systems, including congenital, inflammatory, traumatic and neoplastic disorders.

**Intended learning outcomes of the course ( ILOs):**

**A. Knowledge and understanding:**

**By the end of the course, students will be able to :**

- A1- identify the basic technical principles of the main radiologic equipments: x-ray, CT, MRI.
- A2- describe normal radiologic anatomy of different body systems.
- A3- discuss the radiologic appearance of different diseases.
- A4- enlist the main radiologic tools used in emergencies.
- A5- summarize the differential diagnosis the common diseases.

## **B. Intellectual skills:**

**By the end of the course, students will be able to :**

B1- identify the radiological films of the teaching topics.

B2-Distinguish between normal and abnormal films.

B3-Describe abnormalities on the film.

B4-suggest differential diagnosis.

B5-Construct the algorithmic approach for the different imaging modalities used to diagnose different body organ diseases.

## **C. Professional and practical skills:**

**By the end of the course, students will be able to :**

C1-recognize the radiological film.

C2-analyze and interpret the findings.

C3-demonstrate the difference between CT and MRI.

## **D. General and transferable skills:**

**By the end of the course, students will be able to :**

D1-present effectively a focused case reporting for a given film.

D2-describe the further radiologic investigations needed and persuade the patients and referring physician to perform it.

D3-assemble different information about the different imaging modalities up to date.

D4- online upgrading of knowledge about recent advances in radiology via internet, communication with radiologists, attending conferences.

## **E. Attitude:**

**By the end of the course, students will be able to :**

E1- perform effective communication with the patient and the referring physician.

E2-Recognize psychological criteria of life threatening situations demonstrated in the case reports and practice how to demonstrate sympathy to the patient and relatives in these situations.

E3-Honor and respect patients, their relatives, senior and other colleagues involved in his teaching and subsequently in his future.

## Content

Topic	No. of hours	lectures
Introduction to radiology	1	1
Basic radiology of CNS	2	2
Spine	1	1
Basic radiology of CVS	2	1
Basic radiology of chest	2	1
Basic radiology of GIT & solid organs	3	2
Basic radiology of GUT	1.5	1
MSK	2.5	1

### **Teaching and learning methods:**

- Lectures.
- Field visits to see how imaging is performed in radiology department.

### **Attendance criteria:**

practical attendance : the minimal attendance in practical and tutorial classes is 75%.

### **Methods of assessment:**

- OSCE. (this a form of slid showing different imaging films)
- MCQ.
- Assignment that was ordered on a specified topic at a certain time limit.

## Weighting of assessments:

Exam	Mark	Percent %
Midterm assessment	15	
OSCE assessment	5	
MCQ assessment	10	
Final term assessment	15	
Total	30	100%

## References

- Lectures.

-text books (Diagnostic imaging series, David Sutton, Grainger & Allison).

-periodicals and websites:

<http://radiopaedia.org/>

<https://www.sonoworld.com/>

<http://www.ctisus.com/>