Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description Guide

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: .....University of Baghdad .....
Faculty/Institute: .....Alkindy college of medicine .....
Scientific Department: ...Surgery .....
Academic or Professional Program Name: Radiology.....
Final Certificate Name: Bachelor's degree in Medicine and General Surgery.
Academic System: ...module .....
Description Preparation Date: 10-3-2024
File Completion Date: 11-3-2024

Signature: Bassam M.
Head of Department Name:
Prof. Dr. Bassam Mahmood
Date:

T. Alhaidari
Signature:
Scientific Associate Name:
Prof. Dr. Tagreed Alhaidri
Date:

The file is checked by:
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:
Aseel Samir Muhammad Mahmoud Al-Ammari
Date: 23/4/2024
Signature:

Approval of the Dean Muhammad Shehab Ahmed Matroud Al-Eidani

The Dean
Prof. Dr.
Mohammed Shihab Al-Edanni

1. Program Vision

Our vision at Al Kindi College of Medicine is to provide the highest quality community service and the greatest impact on society. We strive to improve the health and well-being of all through education, research and healthcare.

2. Program Mission

Achieving the goal of graduating excellent, safe, competent and professional doctors at the primary and postgraduate levels who can be relied upon to provide health care services and leadership.

3. Program Objectives

Upon completion of the integrative, student-centred, six-year MBChB (Bachelor of Medicine and General Surgery) curriculum, a medical graduate should be able to:

- Demonstrate a comprehensive knowledge of the parts and functions of the human body and acquire competent communication, clinical and procedural skills consistent with current standards in contemporary medicine.
- Follow the practice of efficient teamwork.
- Enhance leadership skills as the student learns to take a preventive, promotive and therapeutic approach to medical practice.

4. Program Accreditation

The Higher Accreditation Program of Iraqi Medical Colleges, supervised by the Ministry of Higher Education and WHO

5. Other external influences

Ministry of higher education

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	30 hr theory 45 hr practical	3.5		Basic course

College Requirements	Yes			
Department Requirements	Yes			
Summer Training	None			
Other	Nothing			

* This can include notes whether the course is basic or optional.

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
2023-2024/5th year	RAD 508	Radiology	30	45

8. Expected learning outcomes of the program

Knowledge	
Learning Outcomes 1	• Demonstrate a thorough knowledge of the human body's structure and function, and competent communication,
Skills	
Learning Outcomes 2	• Demonstrate clinical and procedural skills consistent with current standards in the contemporary medicine
Learning Outcomes 3	
Ethics	
Learning Outcomes 4	• Implement a competent teamwork practice. • Enhance your leadership skills as you learn to take a preventative, promotive, and curative approach in medical practice.
Learning Outcomes 5	

9. Teaching and Learning Strategies

- Training in small groups at Al-Kindi Teaching Hospital taking the patient's history of illness and clinical examination
- Training in the students' skills lab
- clinical training
- Lecture, Tutorial and seminar

10. Evaluation methods

Formative & summative assessments, continuous assessments
Quizzes examinations
Clinical oral examination

Clinical slide examination Theory MCQ exam Daily assessment

11. Faculty

Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer

Professional Development

Mentoring new faculty members

Dealing with different programs
Dealing with complications in the x ray units
Dealing with the radiation

Professional development of faculty members

Teaching methods course, Continuous medical assessment, Feedback.

12. Acceptance Criterion

Central admission criteria and interviews of applicants.

13. The most important sources of information about the program

Deanary & college website

14. Program Development Plan

Continuous method through quality assurance committee, quality control committee & feedback

Program Skills Outline

Year/Level	Course Code	Course Name	Basic or optional	Required program Learning outcomes											
				Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4
5th class	RAD 508	Radiology	Basic	√	√	√	√	√	√	√	√	√	√		

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

1. Course Name:

Radiology

2. Course Code:

RAD 508

3. Semester / Year:

Fifth year

4. Description Preparation Date:

10-3-2024

5. Available Attendance Forms:

6. Number of Credit Hours (Total) / Number of Units (Total)

3.5 units (30 hr theory), (45 hr. clinical)

7. Course administrator's name (mention all, if more than one name)

Name: Prof. Dr. Qays Ahmed

Email: qayshassan@kmc.uobaghdad.edu.iq

8. Course Objectives

Course Objectives	• To differentiate the nature of ionizing and non-ionizing radiation. • To understand the uses of ionizing radiation in medical practice. • To define the basic principle of X-ray production and how a radiograph is obtained. • To explain how X-ray is used in diagnostic work. • To describe the normal radiological anatomy of the chest, abdomen, g genitourinary system, central nervous system, spine and musculoskeletal sys • To identify common anatomical variations of the chest, abdomen, g genitourinary system, central nervous system, spine and musculoskeletal sys • To identify the radiological abnormalities and provide differential diag abdomen, gastrointestinal tract, genitourinary system, central nervous musculoskeletal system. • To understand the use of various imaging modalities available for t gastrointestinal tract, genitourinary system, central nervous system, spine system. • To identify and interpret radiological abnormalities and provide differential diagnoses radiology imaging. • To understand the use of other imaging modalities available for emergencies. • To describe all the contrast agents used in radiology. • To explain the indications and contraindications for contrast agents in radiol • To explain the side effects of all the contrast media. • To state the adverse reactions of contrast agents in radiology. • To identify the adverse effect of ionizing radiation on human i.e. patients, radiation workers, • To define the principles of radiation protection.

	• To describe the various radiation protection procedures and devices available for medi

9. Teaching and Learning Strategies

Strategy	Cooperative education strategy. Brainstorming education strategy. Practical training education strategy Lectures, case discussions, skills' lab and hospital based learning

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method
1-15 week 2 weeks practical	30 hr 45 hr	• To differentiate the nature of ionizing and non-ionizing radiation. • To understand the uses of ionizing radiation in medical practice. • To define the basic principle of X-ray production and how a radiograph is obtained. • To explain how X-ray is used in diagnostic work. • To describe the normal radiological anatomy of the chest, abdomen, gastrointestinal tract, genitourinary system, central nervous system, spine and musculoskeletal system. • To identify	• Radiological Investigations in chest diseases • Radiological signs of lung diseases • Imaging of pleura and mediastinum diseases • Imaging of specific lung diseases • Imaging of bone diseases • Imaging of joint diseases • Imaging of bone trauma • Imaging of renal diseases • Imaging of UB, prostate, scrotum • Woman imaging • Imaging of brain diseases • Imaging of	• Training in small groups at Al-Kindi Teaching Hospital taking the patient's history of illness and clinical examination • Training in the students' skills lab • clinical training • Lecture, Tutorial and seminar

		common anatomical variations of the chest, abdomen, gastrointestinal tract, genitourinary system, central nervous system, spine and musculoskeletal system. • To identify the radiological abnormalities and provide differential diagnoses for the chest, abdomen, gastrointestinal tract, genitourinary system, central nervous system, spine and musculoskeletal system. • To understand the use of various imaging modalities available for the chest, abdomen, gastrointestinal tract, genitourinary system, central nervous system, spine and musculoskeletal system. • To identify and interpret radiological	spine diseases • Imaging of GIT diseases • Imaging of hepatobiliary diseases	

		abnormalities and provide differential diagnoses in common emergency radiology imaging. • To understand the use of other imaging modalities available for emergencies. • To describe all the contrast agents used in radiology. • To explain the indications and contraindications for contrast agents in radiology. • To explain the side effects of all the contrast media. • To state the adverse reactions of contrast agents in radiology. • To identify the adverse effect of ionizing radiation on human i.e. patients, radiation workers, and public. • To define the principles of radiation protection. • To describe the various radiation protection procedures and devices available for medical use.		

11. Course Evaluation

A. **Continuous assessment: 10%**

attitude 2%

Quizzes examinations 5%

seminar 1.5%

tutorials 1.5%

B. **clinical examination at the end of 2 weeks 20%**

C. Final slide exam 20%

D. Final theory MCQ exam 50%

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	
Main references (sources)	• Diagnostic Imaging, 8th edition by Peter Armstrong, Martin L. Rockall. Wiley-Blackwell
Recommended books and references (scientific journals, reports...)	• Radiology and Imaging For Medical Students, 8th edition Churchill Livingston • Imaging Atlas of Human Anatomy, 5rd Edition by Jamie W ISBN: 9780723434573
Electronic References, Websites	• http://www.radiologymasterclass.co.uk • https://radiopaedia.org • http://www.learningradiology.com