

*Republic of Iraq
Ministry of Higher Education & Scientific Research
Supervision and Scientific Evaluation Directorate
Quality Assurance and Academic Accreditation*



Academic Program Specification Form For The Academic

University: Al-Zahrawi

College: science

Department: Medical

physics

Date Of Form Completion : 15/3/2026

Hussein J. Obaid

Dean's Name:

ate:15/3/2026

Signature

Zainab N. Jawad

Dean's Assistant

For Scientific

Affairs

Date :15/3/2026

Signature

Adie D. Salman

Head of

Department

Date : 15/3/ 2026

Signature

Quality Assurance And University Performance

Manager Date : / /

Signature

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Programmed Specification provides a concise summary of the main features of the programmed and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It is supported by a specification for each course that contributes to the programmer.

1. Teaching Institution	<i>Al-Zahrawi</i>
2. University Department/Centre	<i>College of science/ Medical physics</i>
3. Programmed Title	Bachelors
4. Title of Final Award	bachelors of science in medical physics
5. Modes of Attendance offered	Full-time /Day
6. Accreditation	Ministry of Higher Education and scientific Research-Iraq
7. Other external influences	There is cooperation in the field of study plans and curricula with the College of Science at Al-Nahrain University.
8. Date of production/revision of this specification	18/1/2025 -15/3/2026
9. Aims of the Programmed:	
1- Preparing graduates to practice the profession of medical physics with high efficiency	
2- Providing training sites for students that enable them to gain experience in the field of medical physics	
3- Developing the spirit of scientific honesty, accuracy and integrity in conducting various medical and radiological examinations	
4- Providing the local market with specialized competencies in the field of medical physics	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

- A1- Teaching the student topics related to the specialty of medical physics
- A2- Preparing and implementing various methods used in medical physics
- A3- Training the student on how to obtain samples from reviewers for laboratory examination
- A4- Interpreting the results obtained from the examination and the extent to which they match the diagnosis of the condition

B. Subject-specific skills

- B1. Use brainstorming through direct questions
- B2- The student should participate in all activities, discussions and dialogues in the lectures
- B3- The student must master working inside the laboratory, how to deal with available medical devices, and how to use these devices
- B4- The student must master the theoretical scientific subject

Teaching and Learning Methods

- Lecture
- Dialogue and discussion
- Cooperative learning (group work)
- Brainstorming
- Reciprocal teaching
- Use of projectors and audio equipment
- Writing research papers and reports in English
- Speaking English in class and when participating

Assessment methods

- Direct question-and-answer format during lectures
- Daily expected and surprise quizzes
- Evaluation of research papers and assessment of their writing in terms of style, expression, and spelling
- Questions posed to measure listening and attention in English
- Student participation in evaluating the performance of their peers
- Practical assessment exams focusing on listening, speaking, and reading
- Monthly and term exams
- Final written exams

C. Thinking Skills

C. Thinking Skills

- C1. Use brainstorming through direct questioning.
- C2. Encourage student participation in all activities, discussions, and dialogues during lectures.
- C3. Evaluate the effectiveness of the methods used to solve the problem.

11. programmer Structure				12. Awards and Credits
Level/ Year	Course or Module Code	Course or Module Title	Credit rating	
UGI /One	MPHY1101	Fundamental of Mechanics	8.00	Bachelor Degree Requires (x) credits
	MPHY1102	Electricity and Magnetism	8.00	
	CREQ1101	Mathematics	5.00	
	URENG1	New Headway Plus (Beginner)	2.00	
	URDEM	Democracy and Human Rights	2.00	
	CRANACHE	Analytical Chemistry	5.00	
		Total	30	
UGI /Two	MPHY1206	Biomechanic	7.00	
	MPHY1207	Biophysics	8.00	
	CRGENBIO	General Biology	5.00	
	UREQ150	Computer	3.00	
	URARA1	Arabic Language 1	2.00	
	CRORGCHE	Organic Chemistry	5.00	
		Total	30	
UGI /Three	MPHY2102	Modern Physics	6.00	
	MPHY2103	Thermodynamic	8.00	
	MPHY2101	Mathematical Physics	5.00	
	CRINOCHE	"Inorganic Chemistry "	5.00	
	CRORDDIF	Ordinary Differential Equations	4.00	
	URBRC	Crimes of Baath regime in Iraq	2.00	
		Total	30	
UGI /Four	CRBIOCHE	Physiology	5.00	
	MPH2104	Quantum Mechanics	6.00	
	CRBIOCHE	Biochemistry	4.00	
	CRBIOCHE	New Headway Plus (Pre-Intermediate)	2.00	
	UREQ150	Computer 2	3.00	
	MPH2105	Sound and wave motion	8.00	
	URARA	Arabic 2	2.00	
	Total	30		
		Total	120	

12. Personal Development Planning

- Encouraging students to use medical physics textbooks.
- Developing conversation, translation, and reading skills through the use of websites and other modern resources.
- Encouraging students to familiarize themselves with key medical physics texts.

13. Admission criteria.

First/ College Admission Requirements:

- Student admission is subject to the regulations of the Ministry of Higher Education and Scientific Research's Central Admissions system.
- Successful completion of a special entrance exam or a personal interview, as determined by the College Council.
- Medical fitness for the chosen specialization.

A/ Admission Requirements for the Science Department (Medical Physics):

- Selection of preferred specialization from a list of choices.
- High school GPA and selection based on applicants' preferences.
- GPA in the chosen specialization.
- Capacity of the Science Department.

14. Key sources of information about the programmed

- Encouraging students to use medical textbooks.
- Developing conversation, translation, and reading skills through the use of websites and other modern resources.
- Encouraging students to familiarize themselves with key medical texts.

