

**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

2025

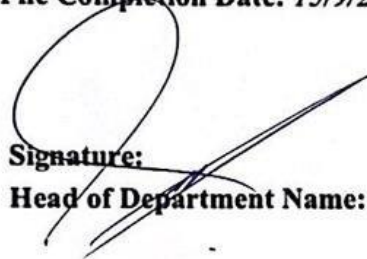
Academic Program Description Form

University Name: *Tikrit*
Faculty/Institute: *College of Medicine*

Scientific Department: *medicine*
Academic or Professional Program Name: *Medical physiology*
Final Certificate Name: *Medical physiology*

Academic System: *yearly*
Description Preparation Date: *15/9/2025*

File Completion Date: *15/9/2025*


Signature:
Head of Department Name:

Professor Dr . Walid Qahtan

Date: *15/9/2025*


Signature:
Scientific Associate Name:

Hashim Abdul Satar

Date: *15/9/2025*


عذراء كامل حسين العبيدي
مسؤول شعبة ضمان الجودة
The file is checked by:
Department of Quality Assurance and University Performance
Director of the Quality Assurance and University Performance Department:

Date: *15/9/2025*
Signature:
Approval-of the Dean



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 staP 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, quaJerly), 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.

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Program Specification provides a concise summary of the main features of the program 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 program.

1. Teaching Institution	College of medicine
2. University Department/Centre	Department of medical physiology
3. Program Title	Problem based –integrated curriculum
4. Title of Final Award	M.B.ch.B.
5. Modes of Attendance offered	Yearly
6. Accreditation	Unisco institution
7. Other external influences	Not available
8. Date of production/revision of this specification	15/9/2025
9. Aims of the Program	
	1-teaching students about normal physiology of human body and in case of diseases
	2- teaching students the normal range of vital parameters of the human body
	3-teaching students heart and brain electrical activity.

4-teaching students medical physics science and its clinical applications.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals

A1. Theoretical and practical learning about body organs, functions in normal states

A2. learning the ionic receptors in the human body and their action in its homeostasis

A3. learning students the medical physics science and its clinical applications.

A4.

B. The skills goals special to the programme .

B1. practical skills for using microscope and perform blood tests

B2. learning skills for determining the heart ECG, measuring blood pressure and lung function test.

B3. practical learning about using x-ray ,ultra sound , optical lenses and endoscope.

Teaching and Learning Methods

Large group teaching

Practical small group teaching

Interactive lectures

Electronic teaching using Google classroom

Assessment methods

1. Theory (MCQ + assay questions)-----50% of marks

2. Practical: OSCE stations-----45% of marks

3. Seminars, Quiz, and other activities-----5% of marks

4. Final exam evaluated by 50%.

C. Affective and value goals

C1. communication skills with patients

C2. Training students to work as a team.

Teaching and Learning Methods

Theoretical lectures and practical labs

Assessment methods

1-by theoretical and practical examinations
2-through seminars.

<p>D. General and Transferable Skills (other skills relevant to employability and personal development) D1.application of theoretical science in clinical practice work D2.development of new skill for the clinical applications D3.respect the patients decisions D4.</p>				
Teaching and Learning Methods				
Theoretical lectures and practical labs				
Assessment Methods				
Practical examinations				
11. Program Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
Year 1	physiology	Medical physiology	60 hours	Bachelor Degree Requires (330) credits
Year 2	physiology	Medical physiology	90 hours	
Year 3	physiology	Medical physiology	60 hours	
Year 1	physics	Medical physics	90 hours	

13. Personal Development Planning

- 1-Workshops attendance inside and outside the college
- 2-Working as a team and searching in most important medical problems
- 3-our ambitious to increase skills of member of faculty and their qualifications in getting MSc and PhD studies

14. Admission criteria .

Official central admission of *Ministry of Higher Education & Scientific Research*

15. Key sources of information about the program

Medical learning unit in the college of medicine
the website of the college of medicine

Curriculum Skills Map

please tick in the relevant boxes where individual Programme Learning Outcomes are being assessed

				Programme Learning Outcomes															
Year / Level	Course Code	Course Title	Core (C) Title or Option (O)	Knowledge and understanding				Subject-specific skills				Thinking Skills				General and Transferable Skills (or) Other skills relevant to employability and personal development			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4	D1	D2	D3	D4
Year 1		Physiology	O	X	X			X	X			X	X			X	X	X	
			O																
Year2		physiology	O																
			O																
Year3		Physiology																	
Year1		physics			X				X		X	X			X	X	X		

Course description template

Course Description Dr. Tiba Badr Saber

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the program description.

Tikrit University / College of Medicine	1. Educational institution
Medical Physiology Branch	2. Scientific Department / Center
Physiology / Phase 1	3. Course Name/Code
Electronic and in-person	4. Available forms of attendance
annual	5. Semester/Year
theory + 30 practical 30	6. Total number of study hours
15/9/2025	7. Date this description was prepared
8. Course Objectives	
1- Teaching students in the early stages the science of human physiology in both health and disease states through theoretical and practical lectures	
2-Teaching students the normal values of vital body indicators	
3 Understanding the function of ion receptors and their role in the body's functional equilibrium	

10.Course outcomes , teaching and learning methods, and assessment
<p>A- Cognitive objectives</p> <p>A1- - Theoretical and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize .functional disorders in clinical lessons at advanced stages</p> <p>A2- - Teaching students the normal values of vital body indicators and the basics of cardiac and cerebral electrical activity</p> <p>A3 - Understanding the function of ion receptors and their role in the body's functional equilibrium</p>
<p>.B - Objectives The skills specific to the course</p> <ul style="list-style-type: none"> • knowledge of using a light microscope to Correct applied and practical diagnoseBand count blood cells • Knowing and performing all basic blood tests for diagnosing diseases • Correct practical knowledge of blood pressure measurement
Teaching and learning methods
<p>Large group teaching</p> <p>Practical small group teaching</p> <p>Interactive lectures</p>
Assessment methods
<p>1. Theory (MCQ + assay questions)----- 50% of marks</p> <p>2. Practical: OSCE stations-----45% of marks</p> <p>3. Seminars, Quiz, and other activities-----5% of marks</p> <p>4. Final exam evaluated by 50%.</p>
<p>C- Affective and value-based objectives</p> <ul style="list-style-type: none"> • How to treat and respect the person undergoing functional tests • consolidation Honesty and credibility in providing laboratory test results • treatment and mutual respect with work and study colleagues Good
<p>Teaching and learning methods</p> <p>Teaching students theoretically and practically, and conducting scientific experiments</p>
Assessment methods

Conducting theoretical and practical exams
Presenting seminars and workshops

D - General and transferable skills (other skills related to employability and . (personal development

- Skill in using and operating a light microscope and a pressure gauge
- Skills in using pulmonary function tests and electrocardiograms
- Skills in performing laboratory blood tests
- Skill in preparing seminars and medical reports

11. Course structure

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	theoretical	Physiology / Theory	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at .advanced stages	30	30 weeks
practical exam	practical	Medical/Practical Physiology	Correct applied and -\ practical knowledge of using the light microscope to diagnose and count blood cells Knowing and - B2 performing all basic blood tests for diagnosing diseases Correct practical - B3 knowledge of blood pressure measurement	30	30 weeks

12. Infrastructure

Ganong's review of medical physiology Medical physics	1- Required textbooks for Physiology and Medical Physics
Ganong's review of medical physiology Textbook of Medical Physiology Human physiology	2-Main references (sources)

physicsMedical	
	a. Recommended books and references (... ,Scientific journals , Reports)
reputable websites	...b) Electronic references, websites

13. Curriculum Development Plan
The latest scientific information and practical medical experiments are added to update the curriculum annually

Course description template

Course Description Dr. Abdulhadi Muhammad Juma

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the . program description

Tikrit University / College of Medicine	9. Educational institution
Medical Physiology Branch	10. / Scientific Department Center
Physiology	11. Course Name/Code
Electronic and in-person	12. Available forms of attendance
annual	13. Semester/Year
Theory + 45 Practical 60	14. Total number of study hours
15/9/2025	15. Date this description was prepared
16. Course Objectives	
Teaching second-year students the science of human physiology in both -\ health and disease states through theoretical and practical lectures	

Teaching students the normal values of vital body indicators and the basics –۲
of cardiac and cerebral electrical activity

Knowing and performing all basic blood tests for diagnosing diseases –۲

14. Course outcomes , teaching and learning methods, and assessment

A- Cognitive objectives

A1- – Theoretical and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in .clinical lessons at advanced stages

A2 – Teaching students the normal values of vital body indicators and the basics of .cardiac and cerebral electrical activity

A3 – Students learn to perform all basic blood tests for diagnosing diseases

-A4

.B – Objectives The skills specific to the course

knowledge of using a light microscope to Correct applied and practical – B1
diagnose and count blood cells

Knowing and performing all basic blood tests for diagnosing diseases – B2

knowledge of blood pressure measurement, lung function Correct practical – B3
.testing, and electrocardiography

- B4

Teaching and learning methods

<p>Large group teaching</p> <p>Practical small group teaching</p> <p>Interactive lectures</p>
<p>Assessment methods</p>
<p>1. Theory (MCQ + assay questions)----- 50% of marks</p> <p>2. Practical: OSCE stations-----45% of marks</p> <p>3. Seminars, Quiz, and other activities-----5% of marks</p> <p>4. Final exam evaluated by 50%.</p>
<p>C- Affective and value-based objectives</p> <p>Part 1- How to treat and respect the person undergoing functional tests</p> <p>Part 2 - consolidation Honesty and credibility in providing laboratory test results</p> <p>Part 3 -treatment and mutual respect with work and study colleagues Good</p>
<p>Teaching and learning methods</p> <p>Teaching students theoretically and practically, and conducting scientific experiments</p>
<p>Assessment methods</p>
<p>Conducting theoretical and practical exams</p> <p>Presenting seminars and workshops</p>
<p>D - General and transferable skills (other skills related to employability and personal development)</p>

D1- - Proficiency in using a pulmonary function test, electrocardiogram (ECG) , and blood pressure monitor

D2-Skill in performing laboratory blood tests

D3-Skills in preparing seminars and medical reports

-D4

15. Course structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	Interactive theoretical lectures	Medical/Theoretical Physiology	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at advanced stages.	60	weeks 30
Practical exams and seminars	Conducting practical experiments	Practical Medical Physiology	Proficiency in using a spirometer, pulmonary function test, electrocardiogram (ECG) and blood pressure monitor. Skill in performing – D2 laboratory blood tests Skills in preparing – D3 seminars and medical reports	45	weeks 30

16. Infrastructure	
Ganong's review of medical physiology	1- Required textbooks for Physiology and Medical Physics

<p>Ganong's review of medical physiology</p> <p>Textbook of Medical Physiology</p> <p>Human physiology</p>	<p>2-Main references (sources)</p>
	<p>a) Recommended books and ,references (scientific journals (.... ,Reports</p>
<p>reputable websites</p>	<p>...b) Electronic references, websites</p>

<p>17. Curriculum Development Plan</p>
<p>The latest scientific information and practical medical experiments are added to .update the curriculum annually</p>

Course description template

Course description : Dr. Maha Arshad Hamdi

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the program description

Tikrit University / College of Medicine	17.Educational institution
Medical Physiology Branch	18. / Scientific Department Center
Medical Physics	19.Course Name/Code
Electronic and in-person	20. Available forms of attendance
annual	21.Semester/Year
30hours of theory + 30 hours of practical work	22. Total number of study hours
15/9/2025	23. Date this description was prepared
24.Course Objectives	

1- Complete knowledge of medical physics and its practical applications in the human body

2- Understanding the physical fundamentals of medical devices and how they work

18. Course outcomes , teaching and learning methods, and assessment

A- Cognitive objectives

A1 - Complete knowledge of medical physics and its practical applications in the human body

A3 - Understanding the physical fundamentals of medical devices and how they work

.B - Objectives The skills specific to the course

,B1 - Knowledge skills in the basics of operating X-ray and ultrasound equipment stethoscopes , and medical thermometers for measuring body temperature

Teaching and learning methods

Large group teaching

Practical small group teaching

Interactive lectures

Assessment methods

1. Theory (MCQ + assay questions)----- 50% of marks

2. Practical: OSCE stations-----45% of marks

3. Seminars, Quiz, and other activities-----5% of marks

4. Final exam evaluated by 50%.

C- Affective and value-based objectives

Part 1-How to treat and respect the person undergoing functional tests

Part 2 – consolidation Honesty and credibility in providing laboratory test results

Part 3- treatment and mutual respect with work and study colleagues Good

Teaching and learning methods

Teaching students theoretically and practically, and conducting scientific .experiments

Assessment methods

Conducting theoretical and practical exams

Presenting seminars and workshops

D – General and transferable skills (other skills related to employability and personal . (development

,D1- – Knowledge of the basics of operating X-ray and ultrasound equipment stethoscopes , and medical thermometers for measuring body temperature

D2- Skill in using hearing testing equipment

D3-Skills in preparing seminars and medical reports

19. Course structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	theoretical	Medical Physics/Theoretical	1- Complete knowledge of medical physics and its practical applications in the human body A3 - Understanding the physical fundamentals of medical devices and how they work	hour per 1 week	30 weeks
practical exam	practical	Medical Physics/Practical	Knowledge of the basics of operating X-ray and ultrasound equipment, stethoscopes , and medical thermometers for .measuring body temperature	hours 2 per week	30 weeks

20. Infrastructure	
Medical physics	Physics 1-Required textbooks for Medical
Medicalphysics	2-Main references (sources)
) a. Recommended books and references (.... ,Scientific journals , Reports
	...b) Electronic references,websites

21. Curriculum Development Plan

Course description template

.Course Description Dr. Sura Saad Abdulazeez Ali

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the program description.

Tikrit University / College of Medicine	25. Educational institution
Medical Physiology Branch	26. Scientific Department / Center
Physiology / Phase 1	27. Course Name/Code
Electronic and in-person	28. Available forms of attendance
annual	29. Semester/Year
theory + 30 practical 30	30. Total number of study hours
15/9/2025	31. Date this description was prepared
32. Course Objectives	
1- Teaching students in the early stages the science of human physiology in both health and disease states through theoretical and practical lectures	
2-Teaching students the normal values of vital body indicators	
3 Understanding the function of ion receptors and their role in the body's functional equilibrium	

22.Course outcomes , teaching and learning methods, and assessment
<p>A- Cognitive objectives</p> <p>A1- Theoretical and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize .functional disorders in clinical lessons at advanced stages</p> <p>A2- Teaching students the normal values of vital body indicators and the basics of cardiac and cerebral electrical activity</p> <p>A3 - Understanding the function of ion receptors and their role in the body's functional equilibrium</p>
<p>.B - Objectives The skills specific to the course</p> <ul style="list-style-type: none"> • knowledge of using a light microscope to Correct applied and practical diagnoseBand count blood cells • Knowing and performing all basic blood tests for diagnosing diseases • Correct practical knowledge of blood pressure measurement
Teaching and learning methods
<p>Large group teaching</p> <p>Practical small group teaching</p> <p>Interactive lectures</p>
Assessment methods
<p>1. Theory (MCQ + assay questions)----- 50% of marks</p> <p>2. Practical: OSCE stations-----45% of marks</p> <p>3. Seminars, Quiz, and other activities-----5% of marks</p> <p>4. Final exam evaluated by 50%.</p>
<p>C- Affective and value-based objectives</p> <ul style="list-style-type: none"> • How to treat and respect the person undergoing functional tests • consolidation Honesty and credibility in providing laboratory test results • treatment and mutual respect with work and study colleagues Good
<p>Teaching and learning methods</p> <p>Teaching students theoretically and practically, and conducting scientific experiments</p>
Assessment methods

Conducting theoretical and practical exams
Presenting seminars and workshops

D - General and transferable skills (other skills related to employability and . (personal development

- Skill in using and operating a light microscope and a pressure gauge
- Skills in using pulmonary function tests and electrocardiograms
- Skills in performing laboratory blood tests
- Skill in preparing seminars and medical reports

23. Course structure

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	theoretical	Physiology / Theory	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at .advanced stages	30	30 weeks
practical exam	practical	Medical/Practical Physiology	Correct applied and -\ practical knowledge of using the light microscope to diagnose and count blood cells Knowing and - B2 performing all basic blood tests for diagnosing diseases Correct practical - B3 knowledge of blood pressure measurement	30	30 weeks

24. Infrastructure

Ganong's review of medical physiology Medical physics	1- Required textbooks for Physiology and Medical Physics
Ganong's review of medical physiology Textbook of Medical Physiology Human physiology	2-Main references (sources)

physicsMedical	
) a. Recommended books and references (... ,Scientific journals , Reports
reputable websites	...b) Electronic references, websites

25. Curriculum Development Plan
The latest scientific information and practical medical experiments are added to update the curriculum annually

Course description template

Course Description Dr..Hassan Yashar Hassan

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the program description.

Tikrit University / College of Medicine	33. Educational institution
Medical Physiology Branch	34. Scientific Department / Center
Physiology / Phase 1	35. Course Name/Code
Electronic and in-person	36. Available forms of attendance
annual	37. Semester/Year
theory + 30 practical 30	38. Total number of study hours
15/9/2025	39. Date this description was prepared
40. Course Objectives	
1- Teaching students in the early stages the science of human physiology in both health and disease states through theoretical and practical lectures	
2-Teaching students the normal values of vital body indicators	
3 Understanding the function of ion receptors and their role in the body's functional equilibrium	

26.Course outcomes , teaching and learning methods, and assessment

<p>A- Cognitive objectives</p> <p>A1- - Theoretical and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize .functional disorders in clinical lessons at advanced stages</p> <p>A2- - Teaching students the normal values of vital body indicators and the basics of cardiac and cerebral electrical activity</p> <p>A3 - Understanding the function of ion receptors and their role in the body's functional equilibrium</p>
<p>.B - Objectives The skills specific to the course</p> <ul style="list-style-type: none"> • knowledge of using a light microscope to Correct applied and practical diagnoseBand count blood cells • Knowing and performing all basic blood tests for diagnosing diseases • Correct practical knowledge of blood pressure measurement
<p>Teaching and learning methods</p>
<p>Large group teaching</p> <p>Practical small group teaching</p> <p>Interactive lectures</p>
<p>Assessment methods</p>
<ol style="list-style-type: none"> 1. Theory (MCQ + assay questions)----- 50% of marks 2. Practical: OSCE stations-----45% of marks 3. Seminars, Quiz, and other activities-----5% of marks 4. Final exam evaluated by 50%.
<p>C- Affective and value-based objectives</p> <ul style="list-style-type: none"> • How to treat and respect the person undergoing functional tests • consolidation Honesty and credibility in providing laboratory test results • treatment and mutual respect with work and study colleagues Good
<p>Teaching and learning methods</p> <p>Teaching students theoretically and practically, and conducting scientific experiments</p>
<p>Assessment methods</p>
<p>Conducting theoretical and practical exams</p> <p>Presenting seminars and workshops</p>

D - General and transferable skills (other skills related to employability and . (personal development

- Skill in using and operating a light microscope and a pressure gauge
- Skills in using pulmonary function tests and electrocardiograms
- Skills in performing laboratory blood tests
- Skill in preparing seminars and medical reports

27. Course structure

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	theoretical	Physiology / Theory	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at .advanced stages	30	30 weeks
practical exam	practical	Medical/Practical Physiology	Correct applied and -\ practical knowledge of using the light microscope to diagnose and count blood cells Knowing and - B2 performing all basic blood tests for diagnosing diseases Correct practical - B3 knowledge of blood pressure measurement	30	30 weeks

28. Infrastructure

Ganong's review of medical physiology Medical physics	1- Required textbooks for Physiology and Medical Physics
Ganong's review of medical physiology Textbook of Medical Physiology Human physiology physics Medical	2- Main references (sources)

	a. Recommended books and , references (Scientific journals (... ,Reports
reputable websites	...b) Electronic references, websites

29. Curriculum Development Plan
The latest scientific information and practical medical experiments are added to update the curriculum annually

Course description template

Course Description Dr .Amrah Mohammed

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the . program description

Tikrit University / College of Medicine	41.Educational institution
Medical Physiology Branch	42. / Scientific Department Center
Physiology	43.Course Name/Code
Electronic and in-person	44. Available forms of attendance
annual	45.Semester/Year
Theory + 45 Practical ٦.	46. Total number of study hours
٢٠٢٥/٩/١٥	47. Date this description was prepared
48.Course Objectives	
Teaching second-year students the science of human physiology in both -١ health and disease states through theoretical and practical lectures	

Teaching students the normal values of vital body indicators and the basics –۲
of cardiac and cerebral electrical activity

Knowing and performing all basic blood tests for diagnosing diseases –۳

30. Course outcomes , teaching and learning methods, and assessment

A- Cognitive objectives

A1- – Theoretical and practical scientific knowledge of the functions of body systems
in their normal state, and preparing the student to recognize functional disorders in
.clinical lessons at advanced stages

A2 – Teaching students the normal values of vital body indicators and the basics of
.cardiac and cerebral electrical activity

A3 – Students learn to perform all basic blood tests for diagnosing diseases

-A4

.B – Objectives The skills specific to the course

- knowledge of using a light microscope to Correct applied and practical
diagnose and count blood cells
- Knowing and performing all basic blood tests for diagnosing diseases
- knowledge of blood pressure measurement, lung function Correct practical
.testing, and electrocardiography

Teaching and learning methods

Large group teaching

Practical small group teaching

Interactive lectures
Assessment methods
<ol style="list-style-type: none"> 1. Theory (MCQ + assay questions)----- 50% of marks 2. Practical: OSCE stations-----45% of marks 3. Seminars, Quiz, and other activities-----5% of marks 4. Final exam evaluated by 50%.
<p>C- Affective and value-based objectives</p> <p>Part 1-How to treat and respect the person undergoing functional tests</p> <p>Part 2 - consolidation Honesty and credibility in providing laboratory test results</p> <p>Part 3- treatment and mutual respect with work and study colleagues Good</p>
Teaching and learning methods
.Teaching students theoretically and practically, and conducting scientific experiments
Assessment methods
<p>Conducting theoretical and practical exams</p> <p>Presenting seminars and workshops</p>
<p>D - General and transferable skills (other skills related to employability and personal . (development</p> <p>D1- Proficiency in using a pulmonary function test, electrocardiogram (ECG) , and blood pressure monitor</p> <p>D2-Skill in performing laboratory blood tests</p>

D3-Skills in preparing seminars and medical reports

31. Course structure

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	Interactive theoretical lectures	Medical/Theoretical Physiology	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at advanced stages	60	week30 s
Practical exams and seminars	Conducting practical experiments	Practical Medical Physiology	Proficiency in using a -\ ,pulmonary function test , electrocardiogram (ECG) .and blood pressure monitor Skill in performing - D2 laboratory blood tests Skills in preparing - D3 seminars and medical reports	45	30 weeks

32. Infrastructure

Ganong's review of medical physiology	1- Required textbooks for Physiology and Medical Physics
Ganong's review of medical physiology Textbook of Medical Physiology Human physiology	2-Main references (sources)
	a) Recommended books and references (scientific (.... ,journals, Reports
reputable websites	,b) Electronic references ...websites

33. Curriculum Development Plan
The latest scientific information and practical medical experiments are added to .update the curriculum annually

Course description template

Course Description Dr. Zainab Samir Yahya Hammo

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the . program description

Tikrit University / College of Medicine	49.Educational institution
Medical Physiology Branch	50.Scientific Department / Center
Physiology	51.Course Name/Code
Electronic and in-person	52.Available forms of attendance
annual	53.Semester/Year
Theory + 45 Practical 60	54.Total number of study hours
15/9/2025	55. Date this description was prepared
56.Course Objectives	
Teaching second-year students the science of human physiology in both health - ١ and disease states through theoretical and practical lectures	
Teaching students the normal values of vital body indicators and the basics of -٢ cardiac and cerebral electrical activity	

Knowing and performing all basic blood tests for diagnosing diseases –۳

34. Course outcomes , teaching and learning methods, and assessment

A- Cognitive objectives

A1- – Theoretical and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in .clinical lessons at advanced stages

A2 – Teaching students the normal values of vital body indicators and the basics of .cardiac and cerebral electrical activity

A3 – Students learn to perform all basic blood tests for diagnosing diseases

-A4

.B – Objectives The skills specific to the course

- knowledge of using a light microscope to diagnose Correct applied and practical and count blood cells
- Knowing and performing all basic blood tests for diagnosing diseases
- knowledge of blood pressure measurement, lung function Correct practical .testing, and electrocardiography

Teaching and learning methods

Large group teaching

Practical small group teaching

Interactive lectures
Assessment methods
<ol style="list-style-type: none"> 1. Theory (MCQ + assay questions)----- 50% of marks 2. Practical: OSCE stations-----45% of marks 3. Seminars, Quiz, and other activities-----5% of marks 4. Final exam evaluated by 50%.
<p>C- Affective and value-based objectives</p> <p>Part 1-How to treat and respect the person undergoing functional tests</p> <p>Part 2 - consolidation Honesty and credibility in providing laboratory test results</p> <p>Part 3-treatment and mutual respect with work and study colleagues Good -</p>
<p>Teaching and learning methods</p> <p>.Teaching students theoretically and practically, and conducting scientific experiments</p>
Assessment methods
<p>Conducting theoretical and practical exams</p> <p>Presenting seminars and workshops</p>
<p>D - General and transferable skills (other skills related to employability and personal . (development</p> <p>D1- Proficiency in using a pulmonary function test, electrocardiogram (ECG) , and blood pressure monitor</p>

D2-Skill in performing laboratory blood tests

D3-Skills in preparing seminars and medical reports

35. Course structure

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	Interactive theoretical lectures	Medical/Theoretical Physiology	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at advanced stages.	60	weeks 30
Practical exams and seminars	Conducting practical experiments	Practical Medical Physiology	Proficiency in using a spirometer, pulmonary function test, electrocardiogram (ECG) and blood pressure monitor. Skill in performing – D2 laboratory blood tests Skills in preparing – D3 seminars and medical reports	45	weeks 30

36. Infrastructure	
Ganong's review of medical physiology	1- Required textbooks for Physiology and Medical Physics
Ganong's review of medical physiology Textbook of Medical Physiology Human physiology	2-Main references (sources)
) a) Recommended books and references scie (.... ,ntific journals, Reports
reputable websites	...b) Electronic references, websites

37. Curriculum Development Plan	
The latest scientific information and practical medical experiments are added to .update the curriculum annually	

Course description template

.Course Description Dr.Mustafa Abdul Jabar Jamil

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the program description.

Tikrit University / College of Medicine	57. Educational institution
Medical Physiology Branch	58. Scientific Department / Center
Physiology / Phase 1	59. Course Name/Code
Electronic and in-person	60. Available forms of attendance
annual	61. Semester/Year
theory + 30 practical 30	62. Total number of study hours
15/9/2025	63. Date this description was prepared
64. Course Objectives	
1- Teaching students in the early stages the science of human physiology in both health and disease states through theoretical and practical lectures	
2-Teaching students the normal values of vital body indicators	
3 Understanding the function of ion receptors and their role in the body's functional equilibrium	

38.Course outcomes , teaching and learning methods, and assessment
<p>A- Cognitive objectives</p> <p>A1- - Theoretical and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize .functional disorders in clinical lessons at advanced stages</p> <p>A2- - Teaching students the normal values of vital body indicators and the basics of cardiac and cerebral electrical activity</p> <p>A3 - Understanding the function of ion receptors and their role in the body's functional equilibrium</p>
<p>.B - Objectives The skills specific to the course</p> <ul style="list-style-type: none"> • knowledge of using a light microscope to Correct applied and practical diagnoseBand count blood cells • Knowing and performing all basic blood tests for diagnosing diseases • Correct practical knowledge of blood pressure measurement
Teaching and learning methods
<p>Large group teaching</p> <p>Practical small group teaching</p> <p>Interactive lectures</p>
Assessment methods
<p>1. Theory (MCQ + assay questions)----- 50% of marks</p> <p>2. Practical: OSCE stations-----45% of marks</p> <p>3. Seminars, Quiz, and other activities-----5% of marks</p> <p>4. Final exam evaluated by 50%.</p>
<p>C- Affective and value-based objectives</p> <ul style="list-style-type: none"> • How to treat and respect the person undergoing functional tests • consolidation Honesty and credibility in providing laboratory test results • treatment and mutual respect with work and study colleagues Good
<p>Teaching and learning methods</p> <p>Teaching students theoretically and practically, and conducting scientific experiments</p>
Assessment methods

Conducting theoretical and practical exams
Presenting seminars and workshops

D - General and transferable skills (other skills related to employability and . (personal development

- Skill in using and operating a light microscope and a pressure gauge
- Skills in using pulmonary function tests and electrocardiograms
- **Skills in performing laboratory blood tests**
- Skill in preparing seminars and medical reports

39. Course structure

Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	theoretical	Physiology / Theory	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at .advanced stages	30	30 weeks
practical exam	practical	Medical/Practical Physiology	Correct applied and -\ practical knowledge of using the light microscope to diagnose and count blood cells Knowing and - B2 performing all basic blood tests for diagnosing diseases Correct practical - B3 knowledge of blood pressure measurement	30	30 weeks

40. Infrastructure

Ganong's review of medical physiology Medical physics	1- Required textbooks for Physiology and Medical Physics
Ganong's review of medical physiology Textbook of Medical Physiology Human physiology	2- Main references (sources)

physicsMedical	
	a. Recommended books and , references (Scientific journals (.... ,Reports
reputable websites	...b) Electronic references, websites

41. Curriculum Development Plan
The latest scientific information and practical medical experiments are added to update the curriculum annually

Course description template

Course description : Dr Mina Dawood Mustafa

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the program description

Tikrit University / College of Medicine	65.Educational institution
Medical Physiology Branch	66. / Scientific Department Center
Medical Physics	67.Course Name/Code
Electronic and in-person	68. Available forms of attendance
annual	69.Semester/Year
30hours of theory + 60 hours of practical work	70. Total number of study hours
15/9/2025	71. Date this description was prepared
72.Course Objectives	

1- Complete knowledge of medical physics and its practical applications in the human body

2-Understanding the physical fundamentals of medical devices and how they work

42. Course outcomes , teaching and learning methods, and assessment

A- Cognitive objectives

A1 – Complete knowledge of medical physics and its practical applications in the human body

A3 – Understanding the physical fundamentals of medical devices and how they work

.B – Objectives The skills specific to the course

,B1 – Knowledge skills in the basics of operating X-ray and ultrasound equipment stethoscopes , and medical thermometers for measuring body temperature

Teaching and learning methods

Large group teaching

Practical small group teaching

Interactive lectures

Assessment methods

1. Theory (MCQ + assay questions)----- 50% of marks

2. Practical: OSCE stations-----45% of marks

3. Seminars, Quiz, and other activities-----5% of marks

4. Final exam evaluated by 50%.

C- Affective and value-based objectives

How to treat and respect the person undergoing functional tests – Part 1

Part 2 – consolidation Honesty and credibility in providing laboratory test results

treatment and mutual respect with work and study colleagues Good – Part 3

Teaching and learning methods Teaching students theoretically and practically, and conducting scientific .experiments
Assessment methods
Conducting theoretical and practical exams Presenting seminars and workshops
D - General and transferable skills (other skills related to employability and personal . (development ,D1- - Knowledge of the basics of operating X-ray and ultrasound equipment stethoscopes , and medical thermometers for measuring body temperature Skill in using hearing testing equipment - D2 Skills in preparing seminars and medical reports - D3

43. Course structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	theoretical	Medical Physics/Theoretical	1- Complete knowledge of medical physics and its practical applications in the human body A3 - Understanding the physical fundamentals of medical devices and how they work	hour per 1 week	30 weeks
practical exam	practical	Medical Physics/Practical	Knowledge of the basics of operating X-ray and ultrasound equipment, stethoscopes , and medical thermometers for .measuring body temperature	hours 2 per week	30 weeks

44. Infrastructure	
Medical physics	Physics 1-Required textbooks for Medical
Medicalphysics	2-Main references (sources)
) a. Recommended books and references (.... ,Scientific journals , Reports
	...b) Electronic references,websites

45. Curriculum Development Plan

Course description template

Course Description Dr .Noor Salman Dalis

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the . program description

Tikrit University / College of Medicine	73.Educational institution
Medical Physiology Branch	74. / Scientific Department Center
Physiology	75.Course Name/Code
Electronic and in-person	76. Available forms of attendance
annual	77.Semester/Year
Theory + 45 Practical 60	78. Total number of study hours
15/9/2025	79. Date this description was prepared
80.Course Objectives	
Teaching second-year students the science of human physiology in both - health and disease states through theoretical and practical lectures	

Teaching students the normal values of vital body indicators and the basics –
of cardiac and cerebral electrical activity

Knowing and performing all basic blood tests for diagnosing diseases –

46. Course outcomes , teaching and learning methods, and assessment

A- Cognitive objectives

A1- – Theoretical and practical scientific knowledge of the functions of body systems
in their normal state, and preparing the student to recognize functional disorders in
.clinical lessons at advanced stages

A2 – Teaching students the normal values of vital body indicators and the basics of
.cardiac and cerebral electrical activity

A3 – Students learn to perform all basic blood tests for diagnosing diseases

-A4

.B – Objectives The skills specific to the course

B1- knowledge of using a light microscope to Correct applied and practical –
diagnose and count blood cells

B2-Knowing and performing all basic blood tests for diagnosing diseases –

B3-knowledge of blood pressure measurement, lung function Correct practical –
.testing, and electrocardiography

Teaching and learning methods

Large group teaching

<p>Practical small group teaching</p> <p>Interactive lectures</p>
<p>Assessment methods</p>
<ol style="list-style-type: none"> 1. Theory (MCQ + assay questions)----- 50% of marks 2. Practical: OSCE stations-----45% of marks 3. Seminars, Quiz, and other activities-----5% of marks 4. Final exam evaluated by 50%.
<p>C- Affective and value-based objectives</p> <p>Part 1-How to treat and respect the person undergoing functional tests</p> <p>Part 2 - consolidation Honesty and credibility in providing laboratory test results</p> <p>Part 3- treatment and mutual respect with work and study colleagues Good</p>
<p>Teaching and learning methods</p> <p>.Teaching students theoretically and practically, and conducting scientific experiments</p>
<p>Assessment methods</p>
<p>Conducting theoretical and practical exams</p> <p>Presenting seminars and workshops</p>
<p>D - General and transferable skills (other skills related to employability and personal . (development</p>

D1- - Proficiency in using a pulmonary function test, electrocardiogram (ECG) , and blood pressure monitor

D2-Skill in performing laboratory blood tests

-D3-Skills in preparing seminars and medical reports

47. Course structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	Interactive theoretical lectures	Medical/Theoretical Physiology	and practical scientific knowledge of the functions of body systems in their normal state, and preparing the student to recognize functional disorders in clinical lessons at advanced stages	60	weeks 30
Practical exams and seminars	Conducting practical experiments	Practical Medical Physiology	1- Proficiency in using a ,pulmonary function test , electrocardiogram (ECG) .and blood pressure monitor 2- Skill in performing laboratory blood tests 3- Skills in preparing seminars and medical reports	45	weeks 30

48. Infrastructure	
Ganong's review of medical physiology	1- Required textbooks for Physiology and Medical Physics

<p>Ganong's review of medical physiology</p> <p>Textbook of Medical Physiology</p> <p>Human physiology</p>	<p>2-Main references (sources)</p>
	<p>a) Recommended books and references (scientific journals (.... ,Reports</p>
<p>reputable websites</p>	<p>...b) Electronic references, websites</p>

<p>49. Curriculum Development Plan</p>
<p>The latest scientific information and practical medical experiments are added to .update the curriculum annually</p>

Course description template

Course description by Dr. Wael Saad Ahmed

This course description provides a concise summary of the course's key features and the expected learning outcomes for the student, demonstrating whether they have made the most of the available learning opportunities . It must be linked to the . program description

Tikrit University / College of Medicine	81.Educational institution
Medical Physiology Branch	82. / Scientific Department Center
computer	83.Course Name/Code
Electronic and in-person	84. Available forms of attendance
annual	85.Semester/Year
Theory + 45 Practical 60	86. Total number of study hours
15/9/2025	87. Date this description was prepared
88.Course Objectives	
1- Teaching second-year students the science of human physiology in both health and disease states through theoretical and practical lectures	

2- Teaching students the normal values of vital body indicators and the basics of cardiac and cerebral electrical activity

3-Knowing and performing all basic blood tests for diagnosing diseases

50. Course outcomes , teaching and learning methods, and assessment

A- Cognitive objectives

A1- Student's knowledge in the field of applications

A2-Understanding how to use applications

A3- Students learned new skills and new methods

.B - Objectives The skills specific to the course

B1- knowledge of using a light microscope to Correct applied and practical diagnose and count blood cells

B2-Knowledge skills – Recall

B3 - Memory Skills – Analysis

B4 - Usage and Development Skills

Teaching and learning methods

Large group teaching

Practical small group teaching

Interactive lectures

Assessment methods

<p>1. Theory (MCQ + assay questions)----- 50% of marks</p> <p>2. Practical: OSCE stations-----45% of marks</p> <p>3. Seminars, Quiz, and other activities-----5% of marks</p> <p>4. Final exam evaluated by 50%.</p>
<p>C- Affective and value-based objectives</p> <p>Part 1-How to treat and respect the person undergoing functional tests -</p> <p>Part 2 - consolidation Honesty and credibility in providing laboratory test results</p> <p>Part3- treatment and mutual respect with work and study colleagues Good</p>
<p>Teaching and learning methods</p> <p>.Teaching students theoretically and practically, and conducting scientific experiments</p>
<p>Assessment methods</p>
<p>Conducting theoretical and practical exams</p> <p>Presenting seminars and workshops</p>
<p>D - General and transferable skills (other skills related to employability and personal . (development</p> <p>D1- - Keeping up with scientific developments by connecting with scientific universities via the internet</p> <p>D2-Participation in workshops and scientific seminars</p> <p>D3- Skills in preparing seminars and medical reports</p>

51. Course structure					
Evaluation Method	Teaching method	Unit/Topic Name	Required learning outcomes	Hours	Week
Theory exam	Interactive theoretical lectures	Medical/Theoretical Physiology	Introduction to MS-office (basic components and window	60	weeks 30
Practical exams and seminars	Conducting practical experiments	Practical Medical Physiology	Microsoft office excel access Microsoft office	45	weeks 30

52. Infrastructure	
Computer skills (2)	1- Required textbooks
	2-Main references (sources)
	a. Recommended books and references (.... ,Scientific journals , Reports)
reputable websites	...b) Electronic references, websites

53. Curriculum Development Plan

The latest scientific information and practical medical experiments are added to update the curriculum annually