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

Academic Program Specification Form For The Academic year 2020/2021

Universitiy:Baghdad
College :Al-Kindy medical college
Number Of Departments In The College :
Date Of Form Completion :

Dean's Name

Date : / /

Signature

Dean's Assistant For Scientific Affairs

Date : / /
Signature

The College Quality Assurance And University Performance Manager

Date : / /
Signature

Quality Assurance And University Performance Manager
Date : / /
Signature

TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

PROGRAMME SPECIFICATION

This Programme Specification provides a concise summary of the main features of the programme 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 programme.

1. Teaching Institution	Al-Kindy Medical college
2. University Department/Centre	Physiology
3. Programme Title	Physiology
4. Title of Final Award	Bachelor in Medicine and General Surgery
5. Modes of Attendance offered	Lectures and practical
6. Accreditation	The Higher Accreditation Program of Iraqi Medical Colleges, supervised by the Ministry of Higher Education and WHO
7. Other external influences	None
8. Date of production/revision of this specification	
9. Aims of the Programme	
The overall aim of the module that the student will be a familiar with the further pursuit of knowledge of the physiology of some systems in the body which are dealt with in greater detail in the following years of the Medicine degree program.	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding

A1. have an enhanced knowledge and appreciation of human physiology;

A2. Understand the functions of important physiological systems including the excitatory tissue like muscles and nerves and their action potential. Understanding the physiology of blood, blood groups and immune system.

A3. understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail;

A4. be able to recognize and identify principal tissue structures

B. Subject-specific skills

B1. Be aware of the functional relationships between various organ systems of the body.

B2. Explain the concept of the internal environment and its regulations by homeostatic mechanisms.

B3. Describe the distribution and composition of body fluids.

B4.Define feedback mechanisms and identify the various components of a control system.

B5.Describes the blood cells, their formation and functions in order to investigation of anaemias, infections and leukaemias

B6. Compare between plasma protein fractions, their origin and functions so as to understand disturbances of their production.

B7. Classify blood groups so as to identify the blood groups of patients and donors for the purpose of safe blood transfusion.

B8. Explain the mechanisms of haemostasis and blood coagulation so as to be aware by diseases arising from excessive bleeding or intravascular clotting.

B9. Discuss the physical, chemical and electrical properties of cell membranes so as to identify abnormalities which may alter their functions.

B10. Explain the ionic basis of the action potential and its propagation in skeletal muscle, heart muscle and nerves so as make use of electrocardiography, electromyography and electroencephalography.

Teaching and Learning Methods

Lectures
Daily activities
General and transferable skills
Teamwork property strengthening

Assessment methods

- Written and On line examination
- reports

C. Thinking Skills

C1. To equip themselves for teamwork.
C2. Develop communication skills and etiquette with sense of responsibility.
C3. Interpretation of laboratory data

Teaching and Learning Methods

1- Lectures
2-Practical
3-Tutorial
4-Self directory learning

Assessment methods

1- Written examination
2- practical assessment
3- final year examination

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1.Ethics and values
D2.Communication skills
D3.Health promotion packages

Teaching and Learning Methods

1- Being a member of research team
2- Knowledge component assessment in form of Theory examination
Skill at the end of each semester as Progress test and the whole year assessed by the End of Year Examination with quizzes in between

Assessment Methods				
Written examinations and quizzes with daily activities				
11. Programme Structure				12. Awards and Credits
/semester /Year	Course or Module Code	Course or Module Title	Credit rating	
First /second semester	PHYS 115	Physiology 1	1.6 credits	1.6
Second/ S1		Hematopoietic and lymphatic module	1.9	4.5
Second /S1		Respiratory system module		
Second/ S2		Cardiovascular system module	2.6	
Second /S2		Digestive and HB System module		
Second/S2		Musculoskeletal system module		
Third /S1		Neurology system module	2.3	4.0
Third /S1		Endocrine system module		
Third /S1		Integumentary module		
Third /S2		Reproductive system module	1.7	
Third /S2		Urinary system module		

13. Personal Development Planning

1- The ability to conduct research on various health problems related to physiology
2- Able to be a community leader

14. Admission criteria.

Candidate from central admission to the Ministry of Higher Education

15. Key sources of information about the programme

1- Alkindy Medical College
2- Ministry of Higher Education and Scientific Research

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**
First level	**PHYS**	**Physiology1**	**Essent**	**X**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***	
Second/S1		Hematopoietic and lymphatic module	**Essent ial**	**X**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***	
		Respiratory system module	**Essent ial**	**X**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***	
Second/S2		Cardiovascular system module	**Essent ial**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***		
		Digestive and HB System module	**Essent ial**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***		
		Musculoskeletal system module	**Essent ial**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***	***x***	
Third /S1		Neurology system module	**Essent ial**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***		**x**
		Endocrine system module	**Essent ial**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***	***x***	

		Integumentary module	**Essential**	x	**x**	**x**	**x**	**x**	**x**	**x**		***x***		***x***	***x***	***x***	***x***		
		Reproductive system module	**Essential**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***		**x**
Third /S2		Urinary system module	**Essential**	**X**	**x**	**x**	**x**	**x**	**x**	**x**	***x***	***x***	***x***		***x***	***x***	***x***	***x***	

TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course 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 should be cross-referenced with the programme specification.

1. Teaching Institution	Alkindy medical college
2. University Department/Centre	University of Baghdad
3. Course title/code	Physiology
4. Modes of Attendance offered	lectures
5. Semester/Year	Semester2\first year S1/second year S2/second year S1/third year S2/ Third year
6. Number of hours tuition (total)	First year 29 hr. Second year 78 hr Third year 62 hr
7. Date of production/revision of this specification	
8. Aims of the Course	
The overall aim of the course that the student will be a familiar with the further pursuit of knowledge of the physiology of some systems in the body which are dealt with in greater detail in the following years of the Medicine degree program	

9· Learning Outcomes, Teaching ,Learning and Assessment Methode

A. Knowledge and Understanding

A1. have an enhanced knowledge and appreciation of human physiology;

A2. Understand the functions of important physiological systems including the excitatory tissue like muscles and nerves and their action potential. Understanding the physiology of blood, blood groups and immune system.

A3. understand how these separate systems interact to yield integrated physiological responses to challenges such as exercise, fasting and ascent to high altitude, and how they can sometimes fail;

A4. be able to recognize and identify principal tissue structures

C. The skills goals special to the course.

Be aware of the functional relationships between various organ systems of the body.

B2. Explain the concept of the internal environment and its regulations by homeostatic mechanisms.

B3. Describe the distribution and composition of body fluids.

B4. Define feedback mechanisms and identify the various components of a control system.

B5. Describes the blood cells, their formation and functions in order to investigation of anaemias, infections and leukaemias

B6. Compare between plasma protein fractions, their origin and functions so as to understand disturbances of their production.

B7. Classify blood groups so as to identify the blood groups of patients and donors for the purpose of safe blood transfusion.

B8. Explain the mechanisms of haemostasis and blood coagulation so as to be aware by diseases arising from excessive bleeding or intravascular clotting.

B9. Discuss the physical, chemical and electrical properties of cell membranes so as to identify abnormalities which may alter their functions.

B10. Explain the ionic basis of the action potential and its propagation in skeletal muscle, heart muscle and nerves so as make use of electrocardiography, electromyoqraphy and electroencephalography.

Teaching and Learning Methods

Lectures

Assessment methods
Written examination Daily activities
C. Affective and value goals C1. To equip themselves for teamwork. C2. Develop communication skills and etiquette with sense of responsibility. C3. Interpretation of laboratory data
Teaching and Learning Methods
Daily activities
Assessment methods

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development) D1.Ethics and values D2.Communication skills D3.Health promotion packages

10. Course Structure(first year /second semester-(physiology)					
Week	**Hours**	**ILOs**	**Unit/Module or Topic Title**	**Teaching Method**	**Assessment Method**
1	**1**		**Cell as a living unit of the body and physiology of cell membrane**	**On-line lectures**	Quiz , attendance ,Reports
	2		**Blood pressure**	**Practical in lab.**	Quiz , attendance ,Reports
2	**1**		**Body fluid composition**	**On-line lectures**	Quiz , attendance ,Reports
	2		**WBC and RBC**	**practical in lab.**	Quiz , attendance ,Reports
3	**1**		**Homeostasis**	**On-line lectures**	Quiz , attendance ,Reports
4	**1**		**Introduction to neuron physiology**	**On-line lectures**	Quiz , attendance ,Reports
	2		**Color blindness**	**Practical**	Quiz , attendance ,Reports
5	**1**		**Nerve action potential**	**On-line lectures**	Quiz , attendance ,Reports
6	**1**		**Properties of action potential**	**On-line lectures**	Quiz , attendance ,Reports
	2		**Body temperature**	**Practical in lab.**	Quiz , attendance ,Reports
7	**1**		**synapses and neuromuscular junction**	**On-line lectures**	Quiz , attendance ,Reports
	2		**Blood typing**	**Practical in lab.**	Quiz , attendance ,Reports
8	**1**		**Introduction to skeletal muscle cell physiology**	**On-line lectures**	Quiz , attendance ,Reports
9	**1**		**Skeletal muscle contraction**	**On-line lectures**	Quiz , attendance ,Reports
10	**1**		**Smooth muscle contraction and Nervous and hormonal control of smooth muscle contraction.**	**On-line lectures**	Quiz , attendance ,Reports
11	**1**		**Composition and function of the blood**	**On-line lectures**	Quiz , attendance ,Reports
12	**1**		**The hemoglobin and red blood cell**	**On-line lectures**	Quiz , attendance ,Reports
13	**1**		**Cell, morphology and classification. The white blood cell**	**On-line lectures**	Quiz , attendance ,Reports
14	**1**		**The immune system**	**On-line lectures**	Quiz , attendance ,Reports
15	**1**		**The platelets ,Hemostasis and blood coagulation**	**On-line lectures**	Quiz , attendance ,Reports

10. Course Structure(Second year)

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	14		Hematopoietic and lymphatic module	Lecture and practical	Quiz , attendance ,Reports
	20		Respiratory system module	Lecture	Quiz , attendance ,Reports
	15		Cardiovascular system module	Lecture and practical	Quiz , attendance ,Reports
	13		Digestive and HB System module	Lecture and practical	Quiz , attendance ,Reports
	16		Musculoskeletal system module	Lecture	Quiz , attendance ,Reports

10. Course Structure(third year)

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	19		Neurology system module	Lecture and practical	Quiz , attendance ,Reports
	15		Endocrine system module	Lecture and practical	Quiz , attendance ,Reports
	7		Integumentary module	Lecture and practical	Quiz , attendance ,Reports
	12		Reproductive system module	Lecture and practical	Quiz , attendance ,Reports
	11		Urinary system module	Lecture and practical	Quiz , attendance ,Reports

11. Infrastructure	
1. Books Required reading:	**1. Guyton and hall textbook of medical physiology 13th edition by John E. Hall - ELSEVIER** **2. Ganong's review of medical physiology 25th edition- LANGE**
2. Main references (sources)	all

A- Recommended books and references (scientific journals, reports…).	all
B-Electronic references, Internet sites…	Any trusted sites

12. The development of the curriculum plan
1- Preparing the necessary survey tools from scientific questionnaires, meetings, focus groups, and others. .٢- Comparison between the objectives of the proposed program and the goals of similar programs in other universities 3 --Determine the bodies in the public and private sectors who are recommended to contact to obtain their views on the program and the proposed plan model ٤--Development of academic content by deleting, adding and replacing. ٥- -Using modern teaching methods according to the nature of the subject and the level of the learners from time to time.