

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: middle Technical University
College : College of Health and Medical Technology-
Baghdad
Department : Technology of Anaesthesia

Dean ' s Name

Date : / /

Signature

*Dean ' s Assistant For
Scientific Affairs*

Date : / /

Signature

Head of Department

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	Middle Technical University
2. University Department/Centre	College of health and medical technology- Baghdad
3. Programme Title	Department of technology of anaesthesia
4. Title of Final Award	Bachelor of Medical Technology/Anaesthesia
5. Modes of Attendance offered	Yearly
6. Accreditation	Theoretical and Practical
7. Other external influences	Labs, Library, Hospitals and Internet
8. Date of production/revision of this specification	23/10/2016
9. Aims of the Programme	
The student to know medical techniques in Anaesthesia and Intensive care and related Scientific standards	
The student to acquire required to manage different cases in Anaesthesia and Intensive care	
The student to follow up the global developments in Anaesthesia and Intensive care	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding

- A1. Student to know the basics of required sciences
- A2. Student to understand the required scientific details
- A3. Student to analyse the scientific developments
- A4. Student to compare the different results

B. Subject-specific skills

- B1. Student to use the instruments correctly
- B2. Student to practically apply what learned
- B3. Student to prepare required objects
- B4. Student to perform procedures suitable to cases faced

Teaching and Learning Methods

Lectures, labs, hospitals, library and internet

Assessment methods

Exams, reports, discussions and presence

C. Thinking Skills

- C1. Student to listen to lectures closely
- C2. Student to identify the importance of learning
- C3. Student to describe the importance of learning
- C4. Student to keep calm and order in class

Teaching and Learning Methods

Lectures, labs, hospitals, library and internet

Assessment methods

Exams, reports, discussions and presence

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

D1. Student to behave appropriately in job interviews

D2. Student to pass the occupational tests

D3. Student to develop himself after graduation

D4. Student to use available facilities for increasing efficiency

Teaching and Learning Methods

Lectures, labs, hospitals, library and internet

Assessment Methods

Exams, reports, discussions and presence

11. Programme Structure

11. Programme Structure			12. Awards and Credits
Level/Year	Course or Module Title	Credit rating	
2016/2017 First	Medical physics	210	Bachelor Degree Requires (x) credits 172
	Anatomy	210	
	General physiology	210	
	Clinical chemistry	210	
	Biology	150	
	Computer	120	
	Professional ethics	60	
	Human rights and democracy	120	

Level/Year	Course or Module Title	Credit rating
2016/2017 Second	Anaesthesia 1	300
	Anaesthetic equipment 1	180
	Applied physiology	270
	Surgery 1	150
	Medicine 1	210
	Pharmacology	120
	Medical terminology	60
2016/2017 Third	Anaesthesia 2	330
	Intensive care technology 1	270
	Anaesthetic equipment 2	270
	Medicine 2	210
	Surgery 2	150
	Computer 2	120
2016/2017 Fourth	Anaesthesia 3	240
	Anaesthetic equipment 3	240
	Intensive care technology	240
	Medicine & surgery	180
	Nursing	180
	project	120

13. Personal Development Planning

Visiting specialized hospitals and centers , viewing updated textbook, journals and references, workshops, labs

14. Admission criteria .

Central admission according to the system of the ministry higher education and scientific research

15. Key sources of information about the programme

The websites of the university and the college

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	Middle Technical University
2. University Department	College of Health and medical technology
3. Scientific Section	Anesthesia techniques
4. Subject Name	Physiology
5. Modes of Attendance offered	weekly(Theoretical two hours and three (hours practical
6. Semester/Year	year
7. Number of hours tuition (total)	150
8. Date of production/revision of this specification	23/10/2016
9. Aims of the Course	The student will be at the end of the school year are able to understand the functions of various body cells and organs in general and perform different techniques of blood and other body fluid analysis.

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

D1. Be able to use all the equipment and materials laboratory

D2. Apply all the theories and experiences of life chemistry.

D3. He likes to work in laboratories and hospitals.

D4. Preparing research on clinical chemistry

A2. It recognizes the body's natural physiological state and the status of the disease.

A3. Be able to use instruments and tools laboratory

A4. It performs analyzes of blood and other bodily fluids.

B. Subject-specific skills

B1. The use of appliances and tools necessary and sustain .

B2. Work safely in the laboratory

B3. Estimate the components of blood and other body fluids descriptive and quantified

B4. Collection and processing of biological samples

Teaching and Learning Methods

Lecture

Laboratory

Assessment methods

Monthly exam

Quiz

C. Thinking Skills

C1. Understanding the importance of physiological analysis of the human body

C2. All natural and unnatural proportions estimated all kinds of analysis.

C3. It calculates components of blood and other body fluids .

C4. He loves the completion of analyzes and tests physiological.

Teaching and Learning Methods

Lecture

Laboratory

Assessment methods

Monthly exam

Quiz

11. Course Structure

Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method
1	√Theoretical √Practical	Understanding the lecture	Introduction to physiology: cell physiology; cell membrane protein synthesis.	the lecture Laboratory	Quick Quiz
2	√Theoretical √Practical	Understanding the lecture	Cell division, water in the body, transport, water and solutes across the cell membrane.	the lecture Laboratory	Quick Quiz
3	√Theoretical √Practical	Understanding the lecture	The muscular system: types of muscle; characteristic of each type.	the lecture Laboratory	Quick Quiz
4	√Theoretical √Practical	Understanding the lecture	The skeletal muscle: excitation contraction coupling in the muscle fatigue, the muscle pain.	the lecture Laboratory	Quick Quiz
5	√Theoretical √Practical	Understanding the lecture	The nervous system: the nerve cell and its function; the nerve impulse, the synapses, the nerves.	the lecture Laboratory	Quick Quiz
6	√Theoretical √Practical	Understanding the lecture	Parts of the nervous system: the central, nervous system the brain and its function, vital centers it the brain.	the lecture Laboratory	Quick Quiz
7	√Theoretical √Practical	Understanding the lecture	The spinal cord; functions, cerebra-spinal fluid; spinal reflexes- the peripheral nervous system, cranial nerves; nerves; spinal nerves functions.	the lecture Laboratory	Quick Quiz
8	√Theoretical √Practical	Understanding the lecture	Autonomic nervous system division; sympathetic, parasympathetic: origin; functions.	the lecture Laboratory	Quick Quiz
9	√Theoretical √Practical	Understanding the lecture	The sensory system; classification of sensors, eye, ear.	the lecture Laboratory	Quick Quiz
10	√Theoretical √Practical	Understanding the lecture	The endocrine system: the hormone, chemistry; action types of endocrine glands and their secretions.	the lecture Laboratory	Quick Quiz
11	√Theoretical √Practical	Understanding the lecture	The blood: functions; component; plasma; functions; blood serum.	the lecture Laboratory	Quick Quiz
12	√Theoretical √Practical	Understanding the lecture	Red blood cells shape: count ; origin, the haemoglobin; constituents; normal value, function.	the lecture Laboratory	Quick Quiz
13	√Theoretical √Practical	Understanding the lecture	White blood cell type; number; function; blood groups.	the lecture Laboratory	Quick Quiz
14	√Theoretical √Practical	Understanding the lecture	Platelets: number; function ; blood clotting ; anti coagulants; origin of blood Celts.	the lecture Laboratory	Quick Quiz
15	√Theoretical √Practical	Understanding the lecture	The cardiovascular system, the heart; structure; heart valves; the cardiac cycle cardiac conductive. System; factors affecting heart rate.	the lecture Laboratory	Quick Quiz
16	√Theoretical √Practical	Understanding the lecture	The heart sounds and murmurs, blood supply to the heart electrical properties of the cardiac muscles. E.G.A.	the lecture Laboratory	Quick Quiz
17	√Theoretical √Practical	Understanding the lecture	The blood vessels; functional classification; structure of the vessels wall; the systemic circuit, pulmonary circuit; regulation of the blood vessels.	the lecture Laboratory	Quick Quiz
18	√Theoretical √Practical	Understanding the lecture	The lymphatic system: functional classification; structure of the vessels wall; the systemic circuit, pulmonary circuit; regulation of the blood vessels.	the lecture Laboratory	Quick Quiz
19	√Theoretical √Practical	Understanding the lecture	The respiratory system; pars; pleura; types; of vital respiratic (Internal-External): Respiratory, Umanry ventilation.	the lecture Laboratory	Quick Quiz
20	√Theoretical √Practical	Understanding the lecture	Gas exchange: Gas transport in the blood; composition of inspiratory air, regulation of respiration.	the lecture Laboratory	Quick Quiz
21	√Theoretical √Practical	Understanding the lecture	Lung volumes and capacities; respiratory junction, it; normal breath.	the lecture Laboratory	Quick Quiz
22	√Theoretical √Practical	Understanding the lecture	Hypoxia-type.	the lecture Laboratory	Quick Quiz
23	√Theoretical	Understanding	The digestive system: parts and the accessory glands	the lecture	Quick Quiz

	.✓Practical	the lecture	(salivary glands- pancreas- liver and bile).	Laboratory	
24	.✓Theoretical .✓Practical	Understanding the lecture	Steps of digestion: (Carbohydrate-protein-fat digestion absorption; intestinal bacteria; defecation.	the lecture Laboratory	Quick Quiz
25	.✓Theoretical .✓Practical	Understanding the lecture	Metabolism: catabolism; anabolism; using of the food for energy, basal metabolic rate.	the lecture Laboratory	Quick Quiz
26	.✓Theoretical .✓Practical	Understanding the lecture	Body temperature : heat loss; regulation of body temperature (Heat regulation center).	the lecture Laboratory	Quick Quiz
27	.✓Theoretical .✓Practical	Understanding the lecture	The urinary system; parts, Basic renal function; the normal formation of the urine.	the lecture Laboratory	Quick Quiz
28	.✓Theoretical .✓Practical	Understanding the lecture	Normal constituents of urine, concentration of urine; abnormal constituents of urine; role of the kidney to maintain body fluids.	the lecture Laboratory	Quick Quiz
29	.✓Theoretical .✓Practical	Understanding the lecture	Role of the kidney to regulate the blood pressure; acid-base balance.	the lecture Laboratory	Quick Quiz
30	.✓Theoretical .✓Practical	Understanding the lecture	The reproductive systems; Male and female genital organs and their hormonal secretions.	the lecture Laboratory	Quick Quiz

12. Infrastructure

Required reading · CORE TEXTS · COURSE MATERIALS · OTHER	Structure and function of Human Menimler wood 1987.
Special requirements (include for example workshops, periodicals, IT software, websites)	Textbook of medical physiology / Arthur C. Guyton, John E. Hall.—12 th Ed
Community-based facilities (include for example, guest Lectures , internship, field studies)	Electronic library

13. Admissions

Pre-requisites	Add the latest books to scheduled
Minimum number of students	8
Maximum number of students	60