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

University: Basrah
College : medical college
Number Of Departments In The College
Date Of Form Completion :31 /10/ 2022

Dean 's Name
Date : / /
prof. Dr. Murtadha Almusafer
Signature

Dean 's Assistant
For Scientific
Affairs
Date : 13/ 12/2022
Signature

The College Quality
Assurance And University
Performance Manager
Date : 13 / 12 / 2022
Signature

Quality Assurance And University Performance
Manager Date : / /
Signature

Republic of Iraq
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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	University of Basrah
2. University Department/Centre	Department of Human Anatomy
3. Program Title	Human anatomy
4. Title of Final Award	M. B. Ch. B.
5. Modes of Attendance offered	annual
6. Accreditation	Quality assurance
7. Other external influences	
8. Date of production/revision of this specification	31/ 10 / 2022

9. Aims of the Program

1-Knowledge of the natural structures , organs and internal structures of the human body, their locations and connections through Dissection and other means such as plastinated cadavers and plastic models, and showing educational films, radiology(xray films) and magnetic resonance films(MRI)..
2- Providing students with knowledge of the appropriate and necessary ethics for professional education to deal with cadavers and humans

3- Students know how to link anatomical facts with their clinical applications, They link anatomy for pre - clinical and clinical stages.

4- Students' knowledge of the types and shapes of tissues and their relationship to their function for all parts of the body and all the organs that make up the human body

5- Providing students with basic knowledge and information in embryology

6- Students' knowledge of the formation and growth of body organs and systems during the normal and

abnormal developmental stages of the fetus, with reference to how congenital malformations occur 7- Students' knowledge of cell components and their functions and how to multiply with the study of the molecular biology entrance 8- Knowing the basics of genetics and studying some genetic diseases

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Cognitive goals

A1-Teaching and learning the surface anatomical signs of the body that indicate the locations of bones, muscles, tendons, blood vessels, nerves and other internal organs

A2- To link the basic sciences of anatomy with the manifestations of pathological conditions in order to reach the correct diagnosis

A3- Application of anatomical facts in clinical applications

A4- Morphological knowledge of all body tissues and linking them to their function and their relationship to histological changes in pathological cases

A 5- Knowing the manifestations and signs of diseases and their relationship to the stages of genetic development

A6- Morphological knowledge of all cell organelles and their relationship to their function, location, and numbers.

B. The skills goals special to the programme.

B1-Determination of anatomical surface signs and their relationship to bones, tendons, muscles and internal structures in the body

B 2- Recognizing and identifying anatomical structures such as muscles, nerves and blood vessels in plastinated and plastic models, in addition to identifying them in x-ray and MRI sections.

B3 - How to use the microscope to diagnose and examine the various tissue samples of the body

B4 Distinguishing body tissues and linking them to their function and their relationship to histological changes in pathological cases

B 5- Distinguishing between the normal human embryonic formation from the abnormal

Teaching and Learning Methods

1- Giving lectures in the form of PowerPoint, displaying educational films, using plastinated and plastic models, various anatomical sections of the brain, x-ray films, magnetic resonance imaging, using modern microscopes to display tissue slides in practical lessons, and students' participation during discussions .while teaching in small groups in practical laboratories

2-Students participate in interactive lectures in theoretical and practical lessons

Assessment methods

1-formative exams for the first and second semester, in addition to (continuous quiz exams during theoretical and practical lessons after showing educational films, practical evaluation after viewing the practical lesson material (evaluation form), training through (Log book) and video lectures
2-The mid-year exam, theoretical and practical
4-Theoretical and practical end-of-year exam

C. Affective and value goals

C1-How to deal and respect the cadavers as a humanitarian introduction to dealing with the human
C2- Teaching the appropriate and necessary ethics for professional dealing with human beings

Teaching and Learning Methods

Discussing with students the correct and ethical handling of anatomical samples according to medical professional behavior

Assessment methods

Practical daily tests

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

D1- Adopting the principles of medical professional lifelong learning (continuing professional development).

Teaching and Learning Methods

1- Using computer efficiency to access biomedical information to keep communicating with the progress of knowledge and practice

2-Provide information (lectures) clearly written on the website

3-Communicate and work effectively with a multidisciplinary team

Assessment Methods

13. Personal Development Planning

practical exams

11. Program Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
1st year	**Medical biology**	**Medical biology**	**60 theoritical +60 practical**	Bachelor's Degree Requires (x) credits
		Introduction	1	
		Chemistry of cell (inorganic)	1	
		Chemistry of cell (organic molecules)	1	
		Molecular organization of plasma membrane	1	
		Modification of plasma membrane	1	

		Transport across the plasma membrane	1	
		Structure and Function of the nucleus	1	
		The nucleolus	1	
		Cytoplasm (Cytoskeleton, Cytosol, and cytoplasmic inclusion)	1	
		Cell organelles Mitochondria	1	
		Ribosome	1	
		Golgi Apparatus (complex)	1	
		Lysosomes	1	
		Cell cycle division Mitosis	1	
		Meiosis	1	
		Cell differentiation and specialization	1	
		Cell aging and cell death	1	
		Simple Epithelial Tissue	1	
		Stratified epithelial tissue	1	
		Glandular Tissue	1	
		Cell Junction	1	
		Connective Tissue components and Functions of connective tissue	1	
		Types of connective tissue cells and fibers	1	
		Proper connective tissue	1	
		Specialized connective tissue	1	

		Blood	1	
		Cartilage Tissue	1	
		Bone tissue	1	
		Bone Ossification	1	
		Muscular Tissue	1	
		Muscle contraction	1	
		Nervous Tissue	1	
		Types of cells and nerves	1	
		Mendelian Genetics	1	
		Extensions and Exceptions to Mendel's Laws (Incomplete dominance, Codominant Multiple alleles, Lethal gene and Pleiotropy	1	
		Polygenic inheritance -Linkage and crossover -Gene mapping	1	
		Normal human chromosome	1	
		Aberration of chromosomal number	1	
		Structural aberration	1	
		Structure and function of DNA	1	
		Structure and function of RNA	1	
		Protein synthesis	1	
		Gene mutation	1	
		Gene repair	1	
		Genetic engineering	1	

		Medical Applications of genetic engineering	1
1st year	**Anatomy**	**Anatomy Upper, lower limb & chest**	**90 theorotical +60 practical**
		Terminology	**1**
		Body cavities &regions	**1**
		Fascia &skin appendages	**1**
		Muscles ,tendons & ligaments	**1**
		Joints ,bones and cartilages	**1**
		Outline of preservation of human cadavers	**1**
		Pectoral region: Osteology, Surface anatomy, Sensory nerve supply	**1**
		Pectoral region: Muscles, blood and nerve supply	**1**
		Axillary fossa	**1**
		Muscles of shoulder	**1**
		Shoulder region	**1**
		Anatomy of arm: Osteology, surface anatomy , cutaneous supply	**1**
		Anatomy of arm: Muscles of anterior and posterior compartment	**1**
		Cubital fossa and contents	**1**
		Anatomy of forearm: Osteology, surface anatomy , cutaneous supply	**1**
		Anatomy of forearm: Muscles of anterior compartment	**1**
		Anatomy of forearm: Muscles of posterior compartment	**1**
		Anatomy of forearm: Nerve supply	**1**
		Anatomy of hand: Osteology, surface anatomy ,	**1**

		cutaneous supply	
		Anatomy of hand: Dorsum of hand, muscles of hand	1
		Anatomy of hand: Blood supply of hand	1
		Gluteal region: Lateral rotators of thigh	1
		Gluteal region: Nerve , blood supply	1
		Anatomy of hip	1
		Posterior facial compartment of thigh	1
		Anterior facial compartment of thigh	1
		Medial facial compartment of thigh	1
		Anatomy of knee joint	1
		Anatomy of leg: Osteology, surface anatomy , cutaneous supply	1
		Extensor and evertor muscles of leg	1
		Flexor muscles of leg	1
		Ankle region	1
		Sole of foot	1
		Dorsum of foot	1
		Chest wall: Osteology, endothoracic fascia	1
		Accessory muscle of respiration	1
		Divisions of thoracic cavity	1
		Mediastinum	1
		Pericardium And heart	1
		Blood supply of heart	1
		Conducting system of the heart	1
		Anatomy of Lung	1
		Anatomy of esophagus	1
		Anatomy of diaphragm	1

2nd year	Anatomy	Anatomy Head, neck, abdomen, pelvis & neuroanatomy	120 theoretical +60 practical
		Osteology of the skull	1
		Views of the skull	1
		Emissary veins & Diploic veins	1
		Cranial fossa	1
		Neonatal skull	1
		Mandible	1
		Meninges	1
		Cranial venous sinuses	1
		Cavernous sinus	1
		Divisions of brain	1
		Cerebrum	1
		Functional area of cerebrum	1
		Basal ganglia	1
		Internal capsule	1
		Ventricles of brain	1
		Cerebrospinal fluid CSF	1
		Diencephalon	1
		Hypothalamus	1
		Brain stem	1
		Pons	1
		Medulla oblongata	1
		Blood supply of the brain	1
		Cerebellum	1
		Reticular formation, Hypocampus &Limbic system	1
		Spinal cord part 1	1
		Spinal cord part 2	1
		Spinal cord tracts	1
		Scalp	1
		Muscles of face	1
		Nerve & blood supply of face	1
		Parotid gland	1
		Oral cavity	1
		Muscles of mastication	1
		Introduction of neck	1

		Anterior triangle of the neck	1
		Posterior triangle of the neck	1
		Thyroid, parathyroid glands	1
		anatomy of larynx	1
		anatomy of pharynx	1
		anatomy of nose	1
		anatomy of ear	1
		Bonny orbit	1
		Muscles of orbit	1
		Internal structures of orbit	1
		Introduction of abdomen	1
		Anterior abdominal wall part 1	1
		Anterior abdominal wall part 2	1
		Posterior abdominal wall	1
		Abdominal Hernia	1
		Peritoneum: structures, boundaries & classifications	1
		Peritoneum: nerve & blood supply Lymphatic drainage	1
		Anatomy of esophagus & stomach	1
		Anatomy of duodenum	1
		Anatomy of jejunum and ileum	1
		Anatomy of cecum & appendix	1
		Anatomy of ascending colon , descending colon ,transverse colon	1
		Blood supply of abdomen.	1
		Venous drainage of abdomen ,Porto caval anastomosis	1
		Anatomy of liver & gallbladder	1
		Anatomy of pancreas & spleen	1
		Anatomy of kidney and suprarenal gland	1
		Orientation of pelvis	1
		Nerves and blood supply of pelvis	1

		Pelvic viscera	**1**
		Female genital organs	**1**
		perineum	**1**
2nd year	**Histology**	**Histology**	**60 theorotical+60 practical**
		Vascular system	4
		capillaries	1
		veins	1
		Arteries	1
		The heart	1
		The skin and its appendages	2
		-Function of this system -Thin skin and thick skin	1
		-Gland of skin -Sensory nerve endings	1
		Lymphatic system	4
		-Lymphatic organs -Lymph node.	1
		-Pharyngeal tonsil. -Palatine tonsils	1
		-Spleen.	1
		-Thymus	1
		Hemopoiesis	2
		-describe the organization of the bone marrow	1
		-Bone marrow and its types -Erythropoiesis	1
Histology		**Digestive system**	8
		-To study parts of alimentary tract & their functions.	1

		-To study the histology of lips, soft and hard palates	1	
		-To study histology of tongue, to know different types of papillae Filiform, fungiform	1	
		-To study histological structure of taste buds	1	
		-To study parts and histology of soft & hard tissues of teeth	1	
		-To learn histology of pharynx, esophagus,	1	
		-To learn histology of stomach	1	
		-To learn histology of small &largeintestine with different type of cells and glands	1	
		Nervous system	4	
		-Histology of nerve cells nerve fibers & neuroglia To understand the structure of synapses	1	
		-To understand: myelination of nerve fibers. And cells, special stains, classification of neurons, electron microscopy of neurons.	1	
		- Peripheral nervous system. (Nerves and ganglia).	1	
		- Central nervous system	1	
		Respiratory system	2	
		-histologic organization of the air conducting nasal cavities, nasopharynx, larynx, trachea, bronchi and bronchioles and the respiratory portions	1	
		-Respiratory epithelium. -The cell types of respiratory epithelium.	1	

		The endocrine system	4	
		-Types of endocrine glands.	1	
		-Types of secretion. Pituitary gland.	1	
		-Thyroid gland. **-Parathyroid gland.**	1	
		- Adrenal gland (Supra renal).	1	
		The urinary system	3	
		- Structure of kidneys. (The nephron).	1	
		-Urinary filtration barrier **-The excretory passages of the kidney.**	1	
		- Ureter. **- urinary bladder**	1	
		Female reproductive system	4	
		-To study histology of ovary (follicles, atresia & corpus luteum)	1	
		-the histology of uterine tube, uterus, different phases of menstrual cycle)	1	
		-The uterine tube (Fallopian tube). **-The uterus. The Menstrual cycle.**	1	
		-Mammary glands (Introduction).	1	
		Male reproductive system	2	
		-To identify the histological structure of the different parts of the system as the testes, genital ducts (epididymis vas deferens, ejaculatory duct & urethra)	1	

		-accessory glands (seminal vesicles, bulbourethral & prostate glands) and penis.	1
		-Mammary glands	1
		Special sense organs	4
		-Objective: To demonstrate bulb of the eye -To understand histology of each layer of the bulb	1
		-To know eye's chambers To study the histology of lens	1
		-To study histology of uvea (choroid, ciliary & iris)	1
		-To study the histology of retina	1
2nd year		Embryology	30 theoretical
Embryology		Introduction	1
		Gametogenesis	1
		Morphological changes during gamete maturation	1
		Spermatogenesis	1
		Oogenesis	1
		Fertilization	1
		2nd week development	1
		Differentiation of germ layers	1
		Differentiation of mesoderm	1
		Endoderm	1
		Formation of chorion & decidua	1
		Formation of placenta	1

		Congenital malformation	1	
		Skeletal system	1	
		Muscular system	1	
		Body cavities & serous membranes	1	
		Formation and position and heart tube	1	
		Formation heart loop	1	
		Development of sinuse venosus	1	
		Formation cardiac septa	1	
		Abnormalities of interventricular septum	1	
		Respiratory system	1	
		Forgut development	1	
		Mid gut & hind gut	1	
		Abnormalities in development of digestive system	1	
		Urogenital system	1	
		Genital system	1	
		Head & neck	1	
		Eye & ear	1	
		Central nervous System	1	

1-Using computer efficiency to access biomedical information to keep communicating with the progress of knowledge and practice

2- Communicate and work effectively with a multidisciplinary team

14. Admission criteria .

Central Admission Policy at the Ministry of Higher Education

15. Key sources of information about the programme

1- **Modern systematic books on anatomy, tissues, embryos, cell and genetics with the use of the Internet**
2- Clinical Anatomy by regions. Richards Snell.eighth edition.
3- Clinical Neuroanatomy. Richards Snell. seventh edition.
4- Junqueira's Basic Histology. Anthony L Mesher. 12th edition.
5- Medical Embryology.T.W.Sadler Twelfth edition.
6- Cell Biology Pollard and Earnshaw.2nd edition.
7- **-Human Biology. Suzanne Wakim & Mandeep Grewal Butte College. California State University,2020**

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**
2nd year		Anatomy		*	*	*		*	*			*	*	*		*			*
		Histology					*				*	*	*	*		*			*
		Embryology																	
1st year		Anatomy																	
		Biology				*				*		*	*	*		*			*

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	
2. University Department/Centre	
3. Course title/code	
4. Modes of Attendance offered	
5. Semester/Year	
6. Number of hours tuition (total)	
7. Date of production/revision of this specification	
8. Aims of the Course	

9· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals .
A1.
A2.
A3.
A4.
A5.
A6 .

B. The skills goals special to the course.
B1.
B2.
B3.

Teaching and Learning Methods

Assessment methods

C. Affective and value goals
C1.
C2.
C3.
C4.

Teaching and Learning Methods

Assessment methods

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development) D1. D2. D3. D4.

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method

11. Infrastructure	
1. Books Required reading:	
2. Main references (sources)	
A- Recommended books and references (scientific journals, reports…).	
B-Electronic references, Internet sites…	

12. The development of the curriculum plan