

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

## *Academic Program Specification Form For The Academic*

*University: Al-Nahrain*  
*College: Medicine*  
*Department: Human Anatomy*  
*Date of Form completion: 13 / 9 / 2021*

*Dean's Name*

*Date: / /*

*Signature*

*Dean's Assistant For  
Scientific Affairs*

*Date: / /*

*Signature*

*Prof. Dr. May Fadhil Magid*  
*Head of Department*

*Date: / /*

*Signature*

*Quality Assurance And University Performance Manager*

*Date: / /*

*Signature*



10· Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding

A1.90-100

A2.89-80

A3.79-60

A4.59-50

A5. 49-40

A6 .below 40

B. Subject-specific skills

B1.teaching on plastic models of embryos.

B2.teaching sections of variable vertebrates embryos.

B3.

Teaching and Learning Methods

1.theory – one hour.

2.practical – 2 hours.

Assessment methods

1.mid- and final theory examination.

2.mid- and final practical examination.

C. Thinking Skills

C1.tetorials.

C2.quizes.

C3.

C4.

Teaching and Learning Methods

See above

Assessment methods

See above

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

D1. not included in the course.

D2.

D3.

D4.

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1.	3		<b>Somitogenesis Myogenesis</b>	Theory and practical	Theory and practical examination
2.	3		<b>The skeletal system</b>	Theory and practical	Theory and practical examination
3.	3		<b>The nervous system</b>	Theory and practical	Theory and practical examination
4.	3		<b>The head and neck</b>	Theory and practical	Theory and practical examination
5.	3		<b>The eye</b>	Theory and practical	Theory and practical examination
6.	3		<b>The ear</b>	Theory and practical	Theory and practical examination
7.	3		<b>Mid-term examination</b>	Theory and practical	Theory and practical examination
8.	3		<b>The heart</b>	Theory and practical	Theory and practical examination
9.	3		<b>The vessels</b>	Theory and practical	Theory and practical examination
10	3		<b>The gut tube.</b>	Theory and practical	Theory and practical examination
11.	3		<b>Derivatives of the gut tube</b>	Theory and practical	Theory and practical examination
12.	3		<b>The respiratory system</b>	Theory and practical	Theory and practical examination
13.	3		<b>The renal system</b>	Theory and practical	Theory and practical examination
14.	3		<b>The internal genital organs</b>	Theory and practical	Theory and practical examination
15	3		<b>The external genital organs</b>	Theory and practical	Theory and practical examination

12. Infrastructure	
Lecture room. Embryological lab.	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Sadler TW (2000): <b>Langman's medical embryology. 8<sup>th</sup> Ed.</b> William & Wilkins. Philadelphia.
Special requirements (include for example workshops, periodicals, IT software, websites)	Many soft wares and websites

Community-based facilities (include for example, guest Lectures , internship , field studies)	Not included
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13. Admissions	
Pre-requisites	Not needed
Minimum number of students	100
Maximum number of students	324

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*College: Medicine*  
*Department: Human Anatomy*  
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*Quality Assurance And University Performance Manager*

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# 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	Al-Nahrain University
2. University Department/Centre	College of Medicine
3. Course title/code	Human Anatomy
4. Programme(s) to which it contributes	MBChB
5. Modes of Attendance offered	Obligatory
6. Semester/Year	2 <sup>nd</sup> / 1 <sup>st</sup>
7. Number of hours tuition (total)	135
8. Date of production/revision of this specification	13/9/2021
9. Aims of the Course	
Introduce students to basic anatomical concepts.	
Describe the anatomy of the upper and lower limbs.	
Orient the students towards the importance of anatomy in clinical practice.	

10. Learning Outcomes, Teaching ,Learning and Assessment Methods



### A- Knowledge and Understanding

A1. Recognize basic knowledge on anatomical terms of position and movements.

A2. Classify parts and components of the human body.

A3. Analyze the anatomy essential to understand clinical procedures in the examination of body structures.

A4. Establish working knowledge of sectional anatomy.

A5. Identify the different anatomical structures in the appendicular skeleton.

A6.

### B. Subject-specific skills

B1. Display surface markings of anatomical structures on the upper and lower limbs in addition to the basics of their examination.

B2. Demonstrate working knowledge of cross sectional anatomy of the appendicular skeleton and relevant applications.

B3. Perform working knowledge of sectional and radiographic anatomy.

### Teaching and Learning Methods

Formal lectures, tutorials, students' seminars, museum demonstrations, and laboratory practical sessions.

### Assessment methods

Daily short quizzes

Daily oral assessments

Theoretical and practical midterm examinations

Theoretical and practical final examinations

### C. Thinking Skills

C1. Reproduce the clinically oriented anatomical knowledge

C2. Justify the anatomical basis of clinical cases

C3. Interpret basic biomechanical aspects in relation to limb functions.

C4.

### Teaching and Learning Methods

Student's seminars and written reports.

### Assessment methods

Presentations assessment and reports marking.

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

D1. Self-confidence reinforcement for presentations

D2. Presentation and report writing and preparation

D3. Discriminating the anatomical details of human body

D4. Correlating the theoretical knowledge and practical observations

## 11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	9	Basic anatomical concepts	Introduction to anatomy: Anatomical terminology. Basic anatomical structures: Skin & fascia	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
2	9	Basic anatomical concepts	Bones: Anatomy & radiological features Muscles & Vessels Joints Verves & nervous systems	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
3	9	Anatomy of upper limb	Superficial structures of the upper limb Anterior thoraco- appendicular muscle Posterior thoraco- appendicular muscles. Joints of the pectoral region	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
4	9	Anatomy of upper limb	Scapulohumeral muscles The shoulder joint, functional and clinical anatomy	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
5	9	Anatomy of upper limb	The axilla: boundaries Axillary vessels and lymph nodes The brachial plexus	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
6	9	Anatomy of upper limb	The arm: anterior compartment The arm: posterior compartment	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
7	9	Anatomy of upper limb	The cubital fossa and elbow joint Flexor compartment of the forearm Extensor compartment of the forearm	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
8	9	Anatomy of upper limb	Nerves and vessels of the forearm. The radio-ulnar joints The wrist region The hand	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
9	9	Anatomy of lower limb	Superficial thigh structures The femoral triangle and femoral sheath Anterior and adductor compartments of the thigh	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports

10	9	Anatomy of lower limb	The gluteal region Posterior compartment of the thigh The hip joint	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
11	9	Anatomy of lower limb	The popliteal fossa Anterior & lateral crural compartments	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
12	9	Anatomy of lower limb	Dorsum of the foot The posterior crural compartment	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
13	9	Anatomy of lower limb	The knee joint The sole of the foot	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
14	9	Anatomy of lower limb	The ankle joint and joints of the foot Venous drainage in the lower limb	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
15	9	Anatomy of lower limb	Nerve injuries in the lower limb Posture & gait	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports

## 12. Infrastructure

<p>Required reading:</p> <ul style="list-style-type: none"> <li>· CORE TEXTS</li> <li>· COURSE MATERIALS</li> <li>· OTHER</li> </ul>	<ul style="list-style-type: none"> <li>- Moore KL &amp; Dalley AF (2006): Clinically Oriented Anatomy. 5th Ed. Lippincott Williams &amp; Wilkins. Philadelphia</li> <li>- Moffat DB (1987): Lecture notes on anatomy. Blackwell publications. Oxford</li> <li>- Snell RS (2011): Clinical anatomy by regions. 9<sup>th</sup> Ed. Williams &amp; Wilkins. Philadelphia</li> <li>- Abrahams P: McMinn's interactive clinical anatomy (CD)</li> <li>- Jaffar A &amp; Al-Salihi A (2000): Selected topics in anatomy (CD). Al-Nahrain University publication.</li> <li>- Weir J &amp; Abrahams P: Imaging atlas of the human body (CD)</li> </ul>
<p>Special requirements (include for example workshops, periodicals, IT software, websites)</p>	<ul style="list-style-type: none"> <li>• MRI of the brain and spine (CD)</li> <li>• McMinn's color atlas of human anatomy (CD)</li> <li>• McMinn &amp; Abrahams's clinical atlas of human anatomy (CD)</li> <li>• Weir J &amp; Abrahams P: Imaging atlas of the human body (CD)</li> <li>• Netter's Interactive Anatomy (CD)</li> </ul>

	Grant's atlas of anatomy (CD)
Community-based facilities (include for example, guest Lectures , internship , field studies)	None

13. Admissions	
Pre-requisites	none
Minimum number of students	100
Maximum number of students	355

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*Head of Department*

*Date:     /     /*

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*Quality Assurance And University Performance Manager*

*Date:     /     /*

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# 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	Al-Nahrain University
2. University Department/Centre	College of Medicine
3. Course title/code	Human Anatomy
4. Programme(s) to which it contributes	MBChB
5. Modes of Attendance offered	Obligatory
6. Semester/Year	1 <sup>st</sup> / 2 <sup>nd</sup>
7. Number of hours tuition (total)	135
8. Date of production/revision of this specification	13/9/2021
9. Aims of the Course	
	Describe the anatomy of the thorax, abdomen, and pelvis.
	Orient the students towards the importance of anatomy in clinical practice.

10. Learning Outcomes, Teaching ,Learning and Assessment Methods

### A- Knowledge and Understanding

- A1. Recognize basic knowledge on anatomy of the trunk.
- A2. Classify parts and components of the trunk.
- A3. Analyze the anatomy essential to understand clinical procedures in the examination of abdominal structures.
- A4. Establish working knowledge of sectional anatomy.
- A5.
- A6.

### B. Subject-specific skills

- B1. Display surface markings of anatomical structures on the body wall and basics of their examination.
- B2. Demonstrate working knowledge of cross sectional anatomy of the trunk and relevant applications.
- B3. Perform working knowledge of sectional and radiographic anatomy.

### Teaching and Learning Methods

Formal lectures, tutorials, students' seminars, museum demonstrations, and laboratory practical sessions.

### Assessment methods

Daily short quizzes  
Daily oral assessments  
Theoretical and practical midterm examinations  
Theoretical and practical final examinations

### C. Thinking Skills

- C1. Reproduce the clinically oriented anatomical knowledge
- C2. Justify the anatomical basis of clinical cases
- C3.
- C4.

### Teaching and Learning Methods

Student's seminars and written reports.

### Assessment methods

Presentations assessment and reports marking.

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

- D1. Self-confidence reinforcement for presentations
- D2. Presentation and report writing and preparation
- D3. Discriminating the anatomical details of human body
- D4. Correlating the theoretical knowledge and practical observations

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	9	Anatomy of thorax	Anatomy of the intercostal space. The pleura. Mechanics of respiration. The lung	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
2	9	Anatomy of thorax	The heart: The pericardium. External features. Surface & radiographic anatomy The heart: Internal features The heart: Blood supply & conductive system	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
3	9	Anatomy of thorax	The breast. The anterior mediastinum The superior mediastinum The posterior mediastinum	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
4	9	Anatomy of abdomen	Topographic & Applied anatomy of the anterior abdominal wall The inguinal region & testis	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
5	9	Anatomy of abdomen	General organization of the peritoneum The peritoneal spaces	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
6	9	Anatomy of abdomen	The esophagus, stomach, and spleen The duodenum and pancreas	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
7	9	Anatomy of abdomen	The liver and biliary system	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
8	9	Anatomy of abdomen	The small intestine The large intestine Blood supply of GIT	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
9	9	Anatomy of abdomen	The posterior abdominal wall: Muscles, vessels & nerves. The diaphragm The kidney & ureter Pain pathways	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
10	9	Anatomy of pelvis	Pelvic walls: Bones, muscles, ligaments, & joints	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports



11	9	Anatomy of pelvis	Pelvic walls: Sex differences, measurements, & variations Pelvic fascia, & peritoneum Urinary bladder and prostate	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
12	9	Anatomy of pelvis	Male internal genital organs Female internal genital organs: The uterus, Uterine tubes ovaries and vagina The rectum and the anal canal	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
13	9	Anatomy of pelvis	Vessels of the pelvis	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
14	9	Anatomy of pelvis	Nerves of the pelvis	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
15	9	Anatomy of pelvis	The perineum: The urogenital triangle The external genitalia The anal triangle & ischiorectal fossa	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports

## 12. Infrastructure

<p>Required reading:</p> <ul style="list-style-type: none"> <li>· CORE TEXTS</li> <li>· COURSE MATERIALS</li> <li>· OTHER</li> </ul>	<ul style="list-style-type: none"> <li>- Moore KL &amp; Dalley AF (2006): Clinically Oriented Anatomy. 5th Ed. Lippincott Williams &amp; Wilkins. Philadelphia</li> <li>- Moffat DB (1987): Lecture notes on anatomy. Blackwell publications. Oxford</li> <li>- Snell RS (2011): Clinical anatomy by regions. 9<sup>th</sup> Ed. Williams &amp; Wilkins. Philadelphia</li> <li>- Abrahams P: McMinn's interactive clinical anatomy (CD)</li> <li>- Jaffar A &amp; Al-Salihi A (2000): Selected topics in anatomy (CD). Al-Nahrain University publication.</li> <li>- Weir J &amp; Abrahams P: Imaging atlas of the human body (CD)</li> </ul>
<p>Special requirements (include for example workshops, periodicals, IT software, websites)</p>	<ul style="list-style-type: none"> <li>• MRI of the brain and spine (CD)</li> <li>• McMinn's color atlas of human anatomy (CD)</li> <li>• McMinn &amp; Abrahams's clinical atlas of</li> </ul>

	human anatomy (CD) <ul style="list-style-type: none"> <li>• Weir J &amp; Abrahams P: Imaging atlas of the human body (CD)</li> <li>• Netter's Interactive Anatomy (CD)</li> </ul> Grant's atlas of anatomy (CD)
Community-based facilities (include for example, guest Lectures , internship , field studies)	None

13. Admissions	
Pre-requisites	none
Minimum number of students	100
Maximum number of students	324

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*Supervision and Scientific Evaluation Directorate*  
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## *Academic Program Specification Form For The Academic*

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*College: Medicine*  
*Department: Human Anatomy*  
*Date of Form completion: 13 / 9 / 2021*

*Dean's Name*

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# 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	Al-Nahrain University
2. University Department/Centre	College of Medicine
3. Course title/code	Human Anatomy
4. Programme(s) to which it contributes	MBChB
5. Modes of Attendance offered	Obligatory
6. Semester/Year	2 <sup>nd</sup> / 2 <sup>nd</sup>
7. Number of hours tuition (total)	135
8. Date of production/revision of this specification	13/9/2021
9. Aims of the Course	
	Provide basic knowledge on CNS organization and topography.
	Highlight the clinical significance of neuroanatomical structure.
	Describe the topography of the head and neck.
	Orient the students towards the importance of anatomy in clinical practice.

10. Learning Outcomes, Teaching ,Learning and Assessment Methods

## A- Knowledge and Understanding

- A1. Recognize basic knowledge on CNS organization and topography.
- A2. Classify parts and components of CNS on dissection and prosections.
- A3. Predict the clinical significance of neuroanatomical structure.
- A4. Describe the topography of the head and neck.
- A5. Analyze the anatomy essential to understand clinical procedures in the examination of head and neck structures.
- A6. Establish working knowledge of sectional anatomy.

## B. Subject-specific skills

- B1. Display surface markings of anatomical structures on the body wall and basics of their examination.
- B2. Demonstrate working knowledge of cross sectional anatomy of CNS and relevant applications.
- B3. Perform working knowledge of sectional and radiographic anatomy.

## Teaching and Learning Methods

Formal lectures, tutorials, students' seminars, museum demonstrations, and laboratory practical sessions.

## Assessment methods

Daily short quizzes  
Daily oral assessments  
Theoretical and practical midterm examinations  
Theoretical and practical final examinations

## C. Thinking Skills

- C1. Reproduce the clinically oriented anatomical knowledge
- C2. Justify the anatomical basis of clinical cases
- C3.
- C4.

## Teaching and Learning Methods

Student's seminars and written reports.

## Assessment methods

Presentations assessment and reports marking.

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

- D1. Self-confidence reinforcement for presentations
- D2. Presentation and report writing and preparation
- D3. Discriminating the anatomical details of human body
- D4. Correlating the theoretical knowledge and practical observations

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	9	Anatomy of the nervous system	Gross anatomy of the brain	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
2	9	Anatomy of the nervous system	Functional localization in cerebral cortex	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
3	9	Anatomy of the nervous system	Meninges & CSF circulation Blood supply of the brain	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
4	9	Anatomy of the nervous system	Cranial nerves	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
5	9	Anatomy of the nervous system	Limbic system Cerebellum Diencephalon	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
6	9	Anatomy of the nervous system	Basal ganglia Spinal cord	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
7	9	Anatomy of the head and neck	Surface anatomy, plan, and fascia of the neck Triangles of the neck	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
8	9	Anatomy of the head and neck	Blood vessels of the neck The thyroid and parathyroid glands. Viscera of the neck The prevertebral and suboccipital regions	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
9	9	Anatomy of the head and neck	The root of the neck The scalp and muscles of the face Nerves and vessels of the face	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
10	9	Anatomy of the head and neck	The parotid region The infratemporal fossa: muscles, vessels and nerves	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
11	9	Anatomy of the head and neck	The pterygopalatine fossa The temporo-mandibular joint. Mouth and palate The Submandibular region	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports

12	9	Anatomy of the head and neck	The ear The orbit and eyeball	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
13	9	Anatomy of the head and neck	The nose and paranasal sinuses The pharynx	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
14	9	Anatomy of the head and neck	The larynx Lymphatic drainage of the head & neck	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports
15	9	Anatomy of the head and neck	Sectional anatomy of the head & neck	Theoretical lectures Practical sessions	Theoretical and practical exams Seminars and reports

## 12. Infrastructure

<p>Required reading:</p> <ul style="list-style-type: none"> <li>· CORE TEXTS</li> <li>· COURSE MATERIALS</li> <li>· OTHER</li> </ul>	<ul style="list-style-type: none"> <li>• Moore KL &amp; Dalley AF (2006): Clinically Oriented Anatomy. 5th Ed. Lippincott Williams &amp; Wilkins. Philadelphia</li> <li>• Snell R (2010): Clinical Neuroanatomy. 7th Ed. Lippincott Williams &amp; Wilkins. Philadelphia</li> <li>• Moffat DB (1987): Lecture notes on anatomy. Blackwell publications. Oxford</li> <li>• Snell RS (2000): Clinical anatomy for medical students. 6<sup>th</sup> Ed. Williams &amp; Wilkins. Philadelphia</li> <li>• Wilkinson: neuroanatomy for medical students</li> <li>• Barr &amp; Kiernan: the human nervous system</li> </ul>
<p>Special requirements (include for example workshops, periodicals, IT software, websites)</p>	<ul style="list-style-type: none"> <li>• MRI of the brain and spine (CD)</li> <li>• McMinn's head and neck anatomy (CD)</li> <li>• McMinn's color atlas of human anatomy (CD)</li> <li>• McMinn &amp; Abrahams's clinical atlas of human anatomy (CD)</li> <li>• Weir J &amp; Abrahams P: Imaging atlas of the human body (CD)</li> <li>• Netter's Interactive Anatomy (CD)</li> <li>• Grant's atlas of anatomy (CD)</li> </ul>
<p>Community-based facilities (include for example, guest Lectures , internship , field studies)</p>	<p>None</p>

13. Admissions	
Pre-requisites	none
Minimum number of students	100
Maximum number of students	324



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# 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	Al-Nahrian University
2. University Department/Centre	College of Medicine
3. Course title/code	Medical biology
4. Programme(s) to which it contributes	MBChb
5. Modes of Attendance offered	Obligatory
6. Semester/Year	2 <sup>nd</sup> /1 <sup>st</sup>
7. Number of hours tuition (total)	75
8. Date of production/revision of this specification	13/9/2021
9. Aims of the Course	
<b>main objective of the department, to give the medical students the basic facts of the of the biological sciences which are necessary for studying other courses in the college, Linking cell biology with primary tissues of the body. Understanding life by seeking the relation between different cell types and viruses. Study of the structure and function of the cell, and metabolic pathways, which makes it the basic line that most, if not all, medical sciences are based on. Primary tissues, <u>2</u> Classification and biological aspects (of lower organisms and the relation between free-living forms and parasitic forms, and effects of environment complement each other in the life of man and other organisms. Basic principles of ecology and knowledge about environmental factors and their effects. Sources of environmental pollution.</b>	


10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

- A1. Linking cell biology with primary tissues of the body
- A2. . Understanding life by seeking the relation between different cell types

A3. Study of structure and function of the cell and relation to metabolic pathways .

A4. study cell constituent , ultra structure of cell.

A5 .analyze the cell structure on molecular level to understand the cell function .

A6 Study Types of human tissues in order to make them ready to know the advanced histology course in 2<sup>nd</sup> level.

A7 Emphasizing the fact, inheritance and effects of environment complement each other in the life of man and other organisms..

A8. Understand Lower organisms of medical importance, simplest forms of life, bacteria, blue-green algae, Protozoa, Platyhelminthes, Nematelminthes, arthropods.

B. Subject-specific skills

B1. In studying the cell of living organisms and analyzing their physiological properties ,structure , life cycle as well as their interaction with the environment

B2. to cover knowledge characters which lead to human diseases and other elements to create ability in students to discover potential treatments and curing of patients

B3. Make a big knowledge of different branches of life sciences and their relation to human health

Teaching and Learning Methods

Formal Lectures ,demonstration , laboratory practical session .

Assessment methods

Daily short quizzes.

Theoretical and practical midterm examination .

Theoretical and practical midterm examination.

### C. Thinking Skills

C1. create ability in students to reproduce knowledge and to understand how cell structure and function contribute to body function as whole .

C2.

C3.

C4.

Teaching and Learning Methods

Theoretical lectures and practical examination of sections and electron micrographs

Assessment methods

Discussion ,and using alternative teaching approaches by making review and relations between different subjects .

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

D1. Correlation between theoretical knowledge and practical examination .

D2. Study and diagnose .

D3.

D4.

## 11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1			1.Introduction to cell biology. 2.The types of cells	Theoretical lectures and practical session	Theoretical lectures and practical exams
2			3The Cytochemistry. 4..The animal cell.	Theoretical lectures and practical session	Theoretical lectures and practical exams
3			5.The plasma membrane. 6.The cell coat& cell junctions	Theoretical lectures and practical session	Theoretical lectures and practical exams
4			7.The cytoplasm &cytoskeleton. 8.The cell organelles	Theoretical lectures and practical session	Theoretical lectures and practical exams
5			.9.The endomembrane system (I). 10.The endomembrane system (II).	Theoretical lectures and practical session	Theoretical lectures and practical exams
6			11.The centrosomes & non living inclusions. 12.The nucleus.	Theoretical lectures and practical session	Theoretical lectures and practical exams
7			13.The cell divisions (mitosis). 14.The cell divisions (meiosis).	Theoretical lectures and practical session	Theoretical lectures and practical exams
8			15.The epithelial tissues. 16. The connective tissues.	Theoretical lectures and practical session	Theoretical lectures and practical exams
9			17. The muscular tissues. 18. The nervous tissues.	Theoretical lectures and practical session	Theoretical lectures and practical exams
10			19. Ecology. 20., Environmental Factors,and .pollution	Theoretical lectures and practical session	Theoretical lectures and practical exams

11			<b>The lower organisms:</b> 21.TheKingdom monera. 22.The Protozoa (I	Theoretical lectures and practical session	Theoretical lectures and practical exams
12			23. The Protozoa (II). 24. The Phylum Sarcodina	Theoretical lectures and practical session	Theoretical lectures and practical exams
13			25 The Phylum zoomastigina. 26. The Phylum ciliophora.	Theoretical lectures and practical session	Theoretical lectures and practical exams
14			27. The Phylum sporozoa. 28. The Helminthes.	Theoretical lectures and practical session	Theoretical lectures and practical exams
15			.29. The Class trematoda.30. The Class cestoda. 30The Phylum nematehelminthes. The Anthropodes	Theoretical lectures and practical session	Theoretical lectures and practical exams

## 12. Infrastructure

<p>Required reading:</p> <ul style="list-style-type: none"> <li>· CORE TEXTS</li> <li>· COURSE MATERIALS</li> <li>· OTHER</li> </ul>	<p>1- Karp (1999) .Cell and Molecular Biology Concept and Experiments (2<sup>nd</sup> edit).</p> <p>2- De Robertis and De Robertis (1987). Cel and Molecular Biology , 8<sup>th</sup> Edit.</p> <p>3-Arms K. and Camp P. S ( 1989 ) . Biology ( 3<sup>rd</sup> Edit ) . Saunders college publishing . 1-Arms K. and Camp P. S ( 1989 ) . Biology ( 3<sup>rd</sup> Edit ) . Saunders college publishing .</p> <p>4- Grove A.J . ( 1987 ) Animal Biology .</p> <p>5-Hewers text book of histology for medical students Resived by S BRADBURY Ninth edition revised London.Wiliam Heinmann medical books. LTD.</p> <p>6- Atlas of histology Leeson Leeson paparo W.B. saunder company</p>
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	<p>Michael H- Ross-Edward Jreith  Histology and atlas Harper &amp; Row  Puplisher J.B. Lippincott company.  7- Fundamental of ecology Odum, E.R 7ED  W.B Saunders 1999 Pollution Hogdz, L 3ED  W.B Saunders 2000 -</p>
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	None

13. Admissions	
Pre-requisites	none
Minimum number of students	100
Maximum number of students	355

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

## *Academic Program Specification Form For The Academic*

*University: Al-Nahrain  
College: Medicine  
Department: Human Anatomy  
Date of Form completion: 13 / 9 / 2021*

*Dean's Name*

*Date:     /     /*

*Signature*

*Dean's Assistant For  
Scientific Affairs*

*Date:     /     /*

*Signature*

*Prof. Dr. May Fadhil Magid  
Head of Department*

*Date:     /     /*

*Signature*

*Quality Assurance And University Performance Manager*

*Date:     /     /*

*Signature*



## TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

1. Teaching Institution	Al Nahrain University
2. University Department/Centre	Department of Anatomy
3. Course title/code	Histology / 1 <sup>st</sup> semester
4. Programs(s) to which it contributes	M.B. Ch. B
5. Modes of Attendance offered	obligatory
6. Semester/Year	2 <sup>nd</sup> semesters / 2 <sup>nd</sup> year
7. Number of hours tuition (total)	60
8. Date of production/revision of this specification	13/9/2021
9. Aims of the Course	
1- the student acquires knowledge and skill in the subject of human histology so that he is able to recognize the microstructure of the normal tissues and organs of body .	
2- the student appreciates the relevance of structure of organs to their function and is exposed as frequently as possible to the close interrelationship between morphology	
D. General and Transferable Skills (other skills relevant to employability and personal development)	
D1. How to use the microscope	
D2. How to prepare a tissue for microscopic examination	
D3. How to study tissue using glass slide	
D4	

10. Learning Outcomes, Teaching ,Learning and Assessment Method

A- Knowledge and Understanding

A1.

A2. give lectures ,tutorials and laboratory sessions .Our general aim is to enable the student to employ to the full, his or her own power of observation and interpretation. Therefore we continuously encourage student participation and asses the learning outcome throughout the course.

A3.

A4.

A5.

A 6.

B. Subject-specific skills

B1. How to differentiate between different types of tissues according to cerain criteria

B2. How to give a practical demonstration in groups

B3.

C. Thinking Skills

C1. Students Seminars

C2.

C3.

C4.

Teaching and Learning Methods

Theoretical Lectures

Practical sessions

Slid demonstration

Plastic model demonstration

Assessment methods

Quizzes

Mid term theoretical Exam

Mid term practical Exam

Final theoretical Exam

Final practical Exam

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
one	4		-Digestive Tract; General structure, the oral cavity and tongue. - Pharynx and esophagus.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Stomach and Small intestine. -Large intestine & appendix	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			-Organs associated with the digestive tract; . Pancreas. - Liver, gall bladder and biliary tract.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Respiratory System; Nasal cavity, , larynx and trachea. - Broncheal tree		
			The Lung. - The Urinary System I. The Kidney and nephrons	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			-The Urinary System II. Ureter, urinary bladder, urethra. - <del>الطح</del>	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			. Urinary system III. - Urinary system III.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			. <b>Mid-term Examination (Theory).</b> - Endocrine glands ; Pituitary gland.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

			<ul style="list-style-type: none"> <li>- Suprarenal glands., thyroid and parathyroid glands.</li> <li>- Pineal , Endocrine , Pancrease glands.</li> </ul>	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			<ul style="list-style-type: none"> <li>-The Male Reproductive System.</li> <li>- Prostate &amp; Urethra.</li> </ul>	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			<ul style="list-style-type: none"> <li>-The Male Reproductive System; Accessory genital glands.</li> <li>- The Female Reproductive System; Ovaries &amp; oviducts</li> </ul>	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			<ul style="list-style-type: none"> <li>-Uterine stages &amp; vagina.</li> <li>- عطة الانتخابات</li> </ul>	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			<ul style="list-style-type: none"> <li>-Mammary glands.</li> <li>-.Organs of Special Senses; Eye I.</li> </ul>	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			<ul style="list-style-type: none"> <li>-Organs of Special Senses; Eye II.</li> <li>- Organs of Special Senses; Ear I.</li> </ul>	lectures ,tutorials and laboratory sessions	
			<ul style="list-style-type: none"> <li>-Organs of Special Senses; Ear II.</li> <li>- Over veiw.</li> </ul>		

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Lectures BASIC HISTOLOGY (11 <sup>th</sup> . ed) Lab microscopic teaching talks
Special requirements (include for example workshops, periodicals, IT software, websites)	Weekly Seminars
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	none
Minimum number of students	100
Maximum number of students	324



*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*

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*College: Medicine*  
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*Date: / /*

*Signature*

*Dean's Assistant For  
Scientific Affairs*

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*Signature*

*Prof. Dr. May Fadhil Magid*  
*Head of Department*

*Date: / /*

*Signature*

*Quality Assurance And University Performance Manager*

*Date: / /*

*Signature*

## 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	Al Nahrain University
2. University Department/Centre	Department of Anatomy
3. Course title/code	Histology / 1 <sup>st</sup> semester
4. Programs(s) to which it contributes	M.B. Ch. B
5. Modes of Attendance offered	obligatory
6. Semester/Year	1 <sup>st</sup> semesters/ 2 <sup>nd</sup> year
7. Number of hours tuition (total)	60
8. Date of production/revision of this specification	13/9/2021
9. Aims of the Course	1- the student acquires knowledge and skill in the subject of human histology so that he is able to recognize the microstructure of the normal tissues and organs of body . 2- the student appreciates the relevance of structure of organs to their function and is exposed as frequently as possible to the close interrelationship between morphology ,physiology ,physiology, biochemistry and pathology .



## 10· Learning Outcomes, Teaching ,Learning and Assessment Method

### A- Knowledge and Understanding

A1.

A2. give lectures ,tutorials and laboratory sessions .Our general aim is to enable the student to employ to the full, his or her own power of observation and interpretation. Therefore we continuously encourage student participation and asses the learning outcome throughout the course.

A3.

A4.

A5.

A 6.

### B. Subject-specific skills

B1. How to differentiate between different types of tissues according to cerain criteria

B2. How to give a practical demonstration in groups

B3.

### C. Thinking Skills

C1. Students Seminars

C2.

C3.

C4.

## Teaching and Learning Methods

Theoretical Lectures

Practical sessions

Slid demonstration

Plastic model demonstration

## Assessment methods

Quizzes

Mid term theoretical Exam

Mid term practical Exam

Final theoretical Exam

Final practical Exam

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

D1. How to use the microscope

D2. How to prepare a tissue for microscopic examination

D3. How to study tissue using glass slide

D4

## 11. Course Structure

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
one	4		Characteristics of epithelial tissue, classification & function. - Membranes and cell adhesion & cell surface specialization.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Epithelial glands. - Connective tissue ground substance & types of fibers.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			Connective tissue <u>cells</u> . - Types of connective tissue	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Fiber typing. - عظمة	lectures ,tutorials and laboratory sessions	
			Modified connective tissue: Cartilage. 10- Bone & ossification..	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Blood & blood cells - Hemopoiesis	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			Muscles:skeletal muscles. - Mechanism of contraction	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			. Cardiac & smooth muscles. - Skin :Epidermis , Dermis & subcutaneous tissue.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Hair and Hair follicle. - Glands of the skin.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)

			- <b>Mid term exam (Theory).</b> H 20- the neurons	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Synapses & supporting tissue Nerve fibers, nerve and ganglia -. Cerebrum, Cerebellum & spinal cord	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			-. The Circulatory System & Capillaries  . AV anastomosis, arteries, Veins & lymph vessels	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			Heart, & its conductive system. - . Diffuse & nodular lymphatic tissue, B & T-lymphocytes.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			- Lymph Nodes & Tonsils.,Thymus. - Spleen.	lectures ,tutorials and laboratory sessions	Quizzes (theory and practical)
			over veiw.	lectures ,tutorials and laboratory sessions	

## 12. Infrastructure

Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	Lectures BASIC HISTOLOGY (11 <sup>th</sup> . ed) Lab microscopic teaching talks
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Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	none
Minimum number of students	100
Maximum number of students	324