

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 2022-2023

University: University of Baghdad
College: College of Veterinary Medicine
Departments In The College: Pathology



Dean's Name

Date: 16/10/2022

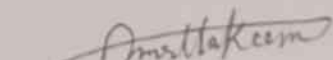
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Dean's Assistant For
Scientific Affairs

Date: 16/10/2022

Signature



The College Quality Assurance
And University Performance
Manager

Date: 16/10/2022

Signature



TEMPLATE FOR PROGRAMME SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: Anatomy, Histology & Embryology

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	Ministry of Higher Education and Scientific research
2. University Department/Centre	University of Baghdad/ College of Veterinary Medicine/ Department of Pathology
3. Programmed Title	Bachelor in Veterinary Medicine & Surgery
4. Title of Final Award	Bachelor in Veterinary Medicine & Surgery
5. Modes of Attendance offered	Two terms / year
6. Accreditation	
7. Other external influences	None
8. Date of production/revision of this specification	
9. Aims of the Programme	
A. The program established a set of academic standards that veterinary students should fulfill before their graduation. The aim of these standards is to ensure the acquirement of the minimum required professional skills by the students before their graduation	
B. The programme provides, in early years, a broad – based knowledge and understanding of the range of biomedical subjects	

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding

- A1. Knowledge of basic concepts in animal anatomy of different organs & systems
- A2. Knowledge of basic concepts in animal histology of different organs & systems
- A3. Knowledge of basic concepts in animal development (Embryology) of different organs & systems

A4.

A5.

A6.

B. Subject-specific skills

- B1. Provide skill in identifying grossly different organs and systems of different domestic animals
- B2. Provide skill in identifying the histological sections of different organs and systems of different domestic animals
- B3. Provide skill in identifying the developmental events of different organs and systems of different domestic animals

Teaching and Learning Methods

1. Establishment grossly of a clear mission for each of the organs and systems of each domestic animal.
2. Establishment histologically of a clear mission for each of the organs and systems of each domestic animal.
3. Establishment Embryologically of a clear mission for each of the organs and systems of each domestic animal.
4. Using of recent methods in teaching of the students
5. Methods of student's assessments

Assessment methods

1. Written Examination (theoretical & practical)

2. Oral examination

3. Assignments (reports preparation)

C. Thinking Skills

C1. The ability to achieve commitment and responsibility and leadership toward excellence and creativity in the

C2.

C3.

C4.

Teaching and Learning Methods

1. lectures

2. Practical sections

3. Discussion

4. Quizzes

5. Report assignments

6. oral practice

7. data show and power point show

Assessment methods

1. written examinations

2. oral examination

3. Quiz examination

4. Report assignment preparation

5. Attendances

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

D1. Acquire the skills to laboratory tools such as microscopes and examination of histological section slides

D2. Acquire the skills to dissect and diagnose grossly the different organs and systems of the domestic animals

D3.

D4.

Teaching and Learning Methods

2. Practical sections
3. Discussion
4. Quizzes
5. Report assignments
6. oral practice
7. data show and power point show

Assessment Methods

1. written examinations
2. oral examination
3. Quiz examination
4. Report assignment preparation
5. Attendances

11. Programme Structure

12. Awards and Credits

Level/Year	Course or Module Code	Course or Module Title	Credit rating	
First	Anatomy Animal management Chemistry Computer Biology English language	ANAT. I ANM CHM1401 COM BIO ENG		Bachelor Degree Requires (x) credits
Second	Anatomy Histology Animal nutrition Biochemistry Physiology Genetics	ANAT. II HIST EMB ANN BCH2402 PHY2502		
Third	Microbiology Pathology Parasitology Pharmacology immunology	MIC PAT PAR PHR3402 IMN		

Fourth	-Surgery -Poultry diseases- -Clinical pathology -Theriogenology -Medicine -Infectious diseases & epidemiology	SUR POU CLP THE MED INF		
Fifth	-Clinic -Veterinary public -- health -Fish diseases -Obstetric -Surgery -Research project	CLN VPH FDS OBS SUR RES		

13. Personal Development Planning

Prepare a generation able to follow up to date and new knowledge in the veterinary fields. Conduct themselves in a professional manner with regard to the veterinarian's professional and legal responsibilities and understand and apply the ethical codes. Promote and maintain a good professional relationship with clients and colleagues, developing common trust and respecting their professional views and confidentially

14. Admission criteria .

According to central acceptance programme of ministry of higher education and scientific research

15. Key sources of information about the programme

1. Establishment of a clear mission and vision for the faculty to ensure the main objectives of the intended development programme
2. Reference to the instructions regarding Baghdad University vocabulary curriculum and instruction exams

Curriculum Skills Map

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

[illegible]

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	Baghdad University/College of Veterinary Medicine/ Anatomy department
3. Course title/code	1. Pathology
4. Programme(s) to which it contributes	Bachelor in General Veterinary Medicine & Surgery
5. Modes of Attendance offered	Compulsory
6. Semester/Year	Two semesters/year
7. Number of hours tuition (total)	1. Anatomy/First class (ANAT. I): 2.5 hours theoretical/week, 2 hours practical/week 2. Anatomy/Second class (ANAT. II) 2 hours theoretical/week, 3 hours practical/week 3. Histology/second class (HIST) 2 hours theoretical/week, 3 hours practical/week 4. Embryology (EMB): 1 hours theoretical/week

8. Date of production/revision of this specification	1/4/2014
9. Aims of the Course	
These courses were designated to achieve a general understanding for the first and second class students about:	
A. Normal gross anatomy of different organs and systems of the body of different domestic Animals	
B. Normal microscopic anatomy (histology) of different organs and systems of the body of different domestic animals	
C. Normal developmental anatomy (embryology) of different organs and systems of the body of different domestic animals	
D. The practical lab portion of these courses will emphasize introductory exercises and skill in identifying normal morphology of the different body organs at both macro and microscopic levels	

10. Learning Outcomes, Teaching ,Learning and Assessment Method
A- Knowledge and Understanding A1. The student will have a comprehensive knowledge and understanding on normal structure of the organs and body systems A2. The student will have a comprehensive knowledge and understanding on normal microscopic structure of the organs and body systems A3. The student will have a comprehensive knowledge and understanding on normal developmental events occurred in the organs and body systems A4. A5. A6 .
B. Subject-specific skills B1.create a skill and provide knowledge to the student on which improve the ability to diagnose the normal body organs grossly B2. create a skill and provide knowledge to the student on which improve the ability to diagnose the normal body organs microscopically B3.improve student ability to use diagnostic tools such as the microscope
Teaching and Learning Methods

1. Theoretical lectures and practical approach for teaching ANAT. , ANAT. II and HIST and only theoretical lectures for EMB.
2. Collection of some information from textbooks or online internet and providing report on them
3. Quizzes
4. Oral discussion during lectures or practical lab

Assessment methods

1. Written theoretical examinations (mid-term, final of term).
2. Written practical examinations (mid-term, final of term).
3. Quizzes
4. Reports

Course assessment weight for annual system (100%) for ANAT. I, ANAT. II and HIST.

First semester		Second semester		Final examination	
Theoretical	Laboratory	Theoretical	Laboratory	Theoretical	Laboratory
15%	10%	15%	10%	20%	30%

Course assessment weight for annual system (100%) for EMB

Second semester	Final examination
50%	50%

C. Thinking Skills

- C1.Performing practical examination and diagnosis as well as drawing of the histological slides of different tissues and organs
- C2.How to use the microscope perfectly
- C3.photography of the organs grossly and microscopically
- C4. Using power point to show slides of tissues and organs

Teaching and Learning Methods

Involvement of students in the scientific discussion during the practical and theoretical lectures

Assessment methods

- 1.Regular practical quizzes

2. preparing assignment (report)

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

D1. good communication

D2. use new technology

D3. how to write report on specific scientific related subject to the course

D4.

11. Course Structure Poultry disease , pathology and Morbid Anatomy:					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1-2	4		Gumboro Disease Newcastle Disease Avian influenza Viral arthritis	Theoretical lecture	Written examination
3-4	4		Mareks Disease Lymphoid leukosis Avian encephalomyelitis Infectious stunting syndrome	Theoretical lecture	Written examination
5-6-7	6		Pox Disease Adeno virus diseases (EDS,HHS,IBH) CIA	Theoretical lecture	Written examination
8	2		SEMESTER EXAM	Theoretical lecture	Written examination
9-10	4		Infectious Bronchitis ILT Duck viral hepatitis	Theoretical lecture	Written examination
11-12-13	6		Mycoplasma diseases Fowl cholera disease Infectious coryza disease	Theoretical lecture	Written examination
1	4		Poultry house Cleaning and disinfection poultry house	Practical lecture	Written examination
2	8		Anatomy and examination Case history	Practical lecture	Written examination
3	8		Vaccination program Poultry nutrition	Practical lecture	slide examination
4	8		Newcastle Disease Avian influenza	Practical lecture	slide examination
5	8		Gumboro Disease Viral arthritis	Practical lecture	slide examination
6	8		Mareks Disease Lymphoid leukosis	Practical lecture	slide examination
7	8		Avian encephalomyelitis	Practical lecture	slide examination

			Infectious stunting syndrome		
8	8		Pox Disease CIA	Practical lecture	slide examination
9	8		Adeno virus diseases (EDS,HHS,IBH)	Practical lecture	slide examination
10	8		SEMESTER EXAM	Practical lecture	slide examination
11	8		Infectious Bronchitis ILT Duck viral hepatitis	Practical lecture	slide examination
12	8		Mycoplasma diseases	Practical lecture	slide examination
13	8		Fowl cholera disease Infectious coryza disease	Practical lecture	slide examination
1	1		Introduction to pathology: Definition and terms in pathology Cell injury: Causes of cell injury: reversible and irreversible and cellular adaptation.	Theoretical lecture	Written examination
2	1		Cell injury Degeneration and types of degeneration: 1-acute cell swelling degeneration 2-hydropic (vacuolar) degeneration 3-Fatty degeneration 4-Hyaline degeneration 5-Fibrinoid degeneration	Theoretical lecture	Written examination
3	1		Amyloidosis: - Definition of Amyloid - Origin, chemical nature and classification of Amyloid -Pathogenesis -gross and microscopic appearance	Theoretical lecture	Written examination

4	1		Necrosis and apoptosis: Mechanisms and types of necrosis Sequel of necrosis and gangrene Apoptosis: Mechanisms and pathology, morphology and microscopic	Theoretical lecture	Written examination
5	1		Pigmentation: Types of pigments: endogenous and exogenous pigments Mineralization Calcification Gout	Theoretical lecture	Written examination
6	1		Disturbance of circulation Hyperemia and congestion Edema Thrombus and embolism Atherosclerosis Shock	Theoretical lecture	Written examination
7	1		Disturbance of growth Atrophy, Hypoplasia Hypertrophy, Hyperplasia Metaplasia Aplasia, Agenesis Anomalies and transformations	Theoretical lecture	Written examination
	1		Mid-Term Examination 8 th week		Written examination
8	1		Inflammation Pathogenesis of inflammation Stages of inflammatory responses 1- Acute inflammatory response Chemical mediators in inflammation, Types of inflammatory cells and exudates (catarrhal, mucinous, fibrinous, suppurative (purulent),	Theoretical lecture	Written examination
9	1		2- Chronic inflammatory response Pathogenesis	Theoretical lecture	Written examination

			Types of chronic inflammatory cells Types of exudates Granulomatous inflammatory response		
10	1		Fate of chronic inflammation Healing and repair granulation tissue and fibrous connective tissue	Theoretical lecture	Written examination
11	2		Immunopathology General features of immune system Innate immunity (nonspecific immunity) Adaptive immunity (specific immunity) Disorders of immune system	Theoretical lecture	Written examination
12	2		Neoplasia and Tumor biology/ Part one Definition, nomenclature, Tumor characterization (benign and malignant tumors)	Theoretical lecture	Written examination
13	1		Neoplasia and Tumor biology/ Part two Carcinogenesis Tumor spread	Theoretical lecture	Written examination
1	1		TB,Leptospirosis	Theoretical lecture	Written examination
2	1		Actinomycosis and actinobacillosis	Theoretical lecture	Written examination
3	1		Colibacillosis ,CBPP		Written examination
4	1		FMD	Theoretical lecture	Written examination
5	1		Listeriosis	Theoretical lecture	Written examination
6	1		Sheep Pox	Theoretical lecture	Written examination
8	1		Contagious acthyma	Theoretical lecture	Written examination
9	1		Black disease	Theoretical lecture	Written examination
10	1		Black leg disease		Written examination
11	1		Anthrax	Theoretical lecture	Written examination
12	1		Brucellosis	Theoretical lecture	Written examination
13	1		Malignant catarrhal diarrhea	Theoretical lecture	Written examination

14	1		Babesiosis	Theoretical lecture	Written examination
15	1		Anaplasmosis	Theoretical lecture	Written examination
1	1		Post mortem necropsy for large animal	Practical lecture	slide examination
2	1		Post mortem necropsy for small animal	Practical lecture	slide examination
3	1		slides TB,Leptospirosis for	Practical lecture	slide examination
4	1		slides for Actinomycosis and actinobacillosis	Practical lecture	slide examination
5	1		slides for Colibacillosis ,CBPP slides for	Practical lecture	slide examination
6	1		slides for FMD	Practical lecture	slide examination
8	1		slides for Listeriosis	Practical lecture	slide examination
9	1		slides for Sheep Pox	Practical lecture	slide examination
10	1		slides for Contagious Ecthyma	Practical lecture	slide examination
11	1		slides for Black disease	Practical lecture	slide examination
12	1		slides for Black leg disease	Practical lecture	slide examination
13	1		slides for Anthrax	Practical lecture	slide examination
14	1		slides for Brucellosis	Practical lecture	slide examination
15	1		slides for Malignant catarrhal diarrhea, Babesiosis	Practical lecture	slide examination
15	1		slides for Anaplasmosis ,Theileriosis	Practical lecture	slide examination

11. Course Structure

ANAT. II:

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	20		Digestive system	Theoretical lecture	Written examination
	10		Respiratory system:	Theoretical lecture	Written examination
	12		Lymphatic system	Theoretical lecture	Written examination
	12		Nervous system	Theoretical lecture	Written examination
	6		Sense organs	Theoretical lecture	Written examination
	3		General description of the skull	Practical lecture	Spot examination
	3		Cranial cavity, nasal cavity, hyoid bone, mandible	Practical lecture	Spot examination
	3		Skull comparative, paranasal sinuses	Practical lecture	Spot examination
	3		Cervical vertebrae, comparative	Practical lecture	Spot examination
	3		Superficial dissection of face region (muscles, nerves, arteries, veins)	Practical lecture	Spot examination
	3		Deep dissection of face region (muscles, nerves, arteries, veins, parotid-auricular region, buccal region, mental region)	Practical lecture	Spot examination
	3		Dissection of oral cavity with its contents (comparison), muscles of hyoid bone, muscles & papillae of the tongue	Practical lecture	Spot examination
	3		Dissection of pharynx (divisions, muscles, openings, muscles of soft palate, muscles of mastication)	Practical lecture	Spot examination
	3		Dissection of nasal cavity with its contents	Practical lecture	Spot examination

			(comparison), larynx (laryngeal cartilages, muscles & cavities), blood & nerve supply of the larynx		
	3		The eye (tunics, muscles, nerves, chambers)	Practical lecture	Spot examination
	3		The brain, cranial & spinal meninges, parts of brain, cranial nerves	Practical lecture	Spot examination
	3		Dissection of neck region (lateral & ventral surfaces) including chief veins, nerves, arteries, muscles, thyroid gland, lymph nodes, trachea, esophagus	Practical lecture	Spot examination
	3		Dissection of neck region (dorsal & lateral surfaces) including chief muscles & nerves	Practical lecture	Spot examination
	3		Dissection of thorax, thoracic fascia, muscles of thoracic wall, respiratory muscles, internal thoracic fascia, pleura, pulmonary ligament, thymus, lung comparative, trachea, bronchial tree	Practical lecture	Spot examination
	3		Nerves in thoracic cavity (phrenic, vagus, sympathetic chain), pericardium, cranial & caudal vena cava, vena azygos, longus coli muscle, transverses thoracic muscles	Practical lecture	Spot examination
	3		Aortic arch, common Brachiocephalic trunk with its branches, thoracic aorta with its branches	Practical lecture	Spot examination

	3		Diaphragm (parts, hiatuses)	Practical lecture	Spot examination
	3		Viscera: stomach (comparative)	Practical lecture	Spot examination
	3		Viscera: small intestine (comparative)	Practical lecture	Spot examination
	3		Viscera: large intestine (comparative)	Practical lecture	Spot examination
	3		Viscera: liver & its ligaments (comparative)	Practical lecture	Spot examination
	3		Lymph centers in abdominal cavity, spleen	Practical lecture	Spot examination
	3		Abdominal aorta with its branches, distribution of autonomic nervous system in region behind diaphragm	Practical lecture	Spot examination
	3		Terminal branches of abdominal aorta in pelvic cavity with autonomic nerves in it	Practical lecture	Spot examination
	3		Dissection of abdominal wall (muscles & nerves)	Practical lecture	Spot examination
			Avian anatomy	Practical lecture	Spot examination

11. Course Structure HIST:					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	5		Cytology	Theoretical lecture	Written examination
	4		The blood and myeloid tissue	Theoretical lecture	Written examination
	5		Nervous Tissue	Theoretical lecture	Written examination
	3		Cartilage and bone	Theoretical lecture	Written examination
	3		Cardiovascular system	Theoretical lecture	Written examination
	3		Lymphatic system	Theoretical lecture	Spot examination
	3		Respiratory system	Theoretical lecture	Spot examination
	4		Skin	Theoretical lecture	Spot examination
	8		Digestive system	Theoretical lecture	Spot examination
	3		Urinary system	Theoretical lecture	Spot examination
	4		Endocrine system	Theoretical lecture	Spot examination
	4		Male reproductive system	Theoretical lecture	Spot examination
	6		Female reproductive system	Theoretical lecture	Spot examination
	4		Sensory organs	Theoretical lecture	Spot examination
	3		General information to the students, their positions in the laboratory, how to use & take care of microscopes, general structure of the cell, nerve cell, different type of cells.	Practical lecture	Spot examination
	3		Glycogen granules, mitochondria, Golgi complex, Nissl bodies.	Practical lecture	Spot examination
	3		Different types of epithelial tissue (simple & stratified).	Practical lecture	Spot examination
	3		Connective tissue proper: reticular C.T., adipose C.T., elastic C.T., white fibrous C.T., cells of the C.T.	Practical lecture	Spot examination
	3		Muscular tissue (striated muscle, smooth muscle, cardiac muscle), supportive C.T. (elastic cartilage, hyaline cartilage, fibrocartilage).	Practical lecture	Spot examination
	3		Compact bone, decalcified, cancellous bone, bone developing.	Practical lecture	Spot examination

	3		Nervous tissue: myelinated nerve fibers, nerve trunk, spinal ganglion, sympathetic ganglion, Pacinian corpuscle, motor end plate.	Practical lecture	Spot examination
	3		Blood cells: WBC, RBC, blood platelets.	Practical lecture	Spot examination
	3		Blood smear: preparation, staining & differential count of WBCs	Practical lecture	Spot examination
	3		Bone marrow.	Practical lecture	Spot examination
	3		Lymphatic system: lymph node, thymus, spleen, palatine tonsil, pharyngeal tonsil.	Practical lecture	Spot examination
	3		Cardiovascular system: aorta (elastic artery), medium-sized muscular artery, small artery, small vein, medium-sized vein, large vein (vena cava), wall of heart (purkinje fibers), semilunar valves.	Practical lecture	Spot examination
	3		Tongue structure, lingual papillae.	Practical lecture	Spot examination
	3		Salivary glands: parotid, sublingual, submaxillary, esophagus.	Practical lecture	Spot examination
	3		Fundic gland region of stomach, pyloric gland region of stomach, rumen, reticulum, Omasum.	Practical lecture	Spot examination
	3		Small intestine: duodenum, jejunum, ileum, large intestine, recto-anal canal	Practical lecture	Spot examination
	3		Liver, gall bladder, pancreas	Practical lecture	Spot examination
	3		Respiratory system: larynx, trachea, lung	Practical lecture	Spot examination
	3		Endocrine glands: hypophysis (pituitary gland), adrenal gland, thyroid gland, parathyroid gland	Practical lecture	Spot examination
	3		Urinary system: kidney, ureter, urinary bladder	Practical lecture	Spot examination
	3		Male genital system: testis, epididymis, vas deferens	Practical lecture	Spot examination

	3		Female genital system: ovary, corpus luteum, uterine tubes, uterus (secretory & proliferative phases)	Practical lecture	Spot examination
	3		Hairy skin, including hair follicles & sebaceous glands	Practical lecture	Spot examination
	3		Eye: cornea, retina	Practical lecture	Spot examination
	3		Ear: cochlea, Corti organ	Practical lecture	Spot examination
	3		Mammary gland (active & inactive)	Practical lecture	Spot examination

11. Course Structure EMB:					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
	1		Introduction, oogenesis, spermatogenesis	Theoretical lecture	Written examination
	1		Fertilization, cleavage, implantation	Theoretical lecture	Written examination
	1		Trilaminar embryonic disc	Theoretical lecture	Written examination
	1		Placentation with classification	Theoretical lecture	Written examination
	1		Development of cardiovascular system	Theoretical lecture	Written examination
	1		Development of Urogenital system	Theoretical lecture	Written examination
	1		Development of body cavities	Theoretical lecture	Written examination
	1		Development of digestive system	Theoretical lecture	Written examination
	1		Development of respiratory system	Theoretical lecture	Written examination
	1		Development of nervous system	Theoretical lecture	Written examination

12. Infrastructure	
<p>Required reading:</p> <ul style="list-style-type: none"> · CORE TEXTS · COURSE MATERIALS · OTHER 	<ol style="list-style-type: none"> 1. Course Notes (by staff members) 2. Dellmann, H. D. 1998. Textbook of Veterinary Histology. 5th Ed. Lippincott, Williams and Wilkins, USA. (HIST) 3. Bacha, W.J. and L. M. Bacha. 2000. Color Atlas of Veterinary Histology, Lippincott William and Wilkins, USA.(HIST) 4. Lee and Febiger, Banks, W.J., 1992. Applied Veterinary Histology. (3rd Ed). Williams and Willkins, Baltimore.(HIST) 5. Veterinary Developmental Anatomy-Veterinary Embryology, 2011. (EMB) 6. langman's medical embryology 9th ed. (EMB) 7. A Text Book of Veterinary Anatomy By Robert Getty. (ANAT . I, ANAT. II)
Special requirements (include for example workshops, periodicals, IT software, websites)	<p>Laboratory devices and tools</p> <p>Data show, screen, microscopes.</p> <p>Dissecting of animals and view the different organs and system of domestic animals.</p> <p>Using latex injection method for studying g the blood vessels</p>
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	
Minimum number of students	40
Maximum number of students	80

TEMPLATE FOR TYPICAL SITE VISIT CHEDULE

1. The typical site visit schedule is designed for two or three days. It includes pre-arranged meetings. The responsibility for arranging these meetings and fitting the template to the circumstances rests with the Universities Quality Assurance and University Performance departments
2. Site visits will normally commence at 09:00 on day 1. Start times of pre-arranged meetings are indicated. Pre-arranged meetings should not normally last more than one hour. The schedule should not completely fill all times with meetings, but leave space for additional activities by peer reviewers including preparing for meetings, updating notes and records and drafting paragraphs for the draft Programme Review report

Table (1)

Session	Time	Activity
Day 1		
1	09:00	Welcome and introductions; brief introduction to the review (purposes, intended outcomes, use of evidence and self-evaluation report) – Programme Team
2	09:30	Curriculum; discussion with faculty members
3	11:00	Meeting with a group of students
4	12:30	Efficiency: tour of resources
5	14:00	Review panel meeting: scrutiny of additional documentation including sample of students' assessed work
6	15:00	Efficiency: meeting with faculty members
7	16:00	Review panel meeting: review of the evidence and any gaps or matters to follow-up
8	17:00	Meeting with external stakeholders (sample of graduates, employers, other partners)
Day 2		
9	08:45	Review meeting with review chairperson, review coordinator, programme leader: summary of day 1 findings, addressing any gaps, adjust the schedule for day 2 if required
10	09:00	Academic standards: meeting with faculty members
11	10:30	Effectiveness of quality management and assurance: meeting with faculty members
12	12:00	Review panel meeting: review of evidence and any matters still to be addressed
13	14:00	Flexible time to pursue any matters arising
14	14:30	Review panel final meeting: decisions on outcomes and drafting oral feedback
15	16:30	Oral feedback by review chairperson to review coordinator and faculty members

	17:00	Close
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TEMPLATE FOR THE FOLLOW-UP PROCESS AND REPORT, AND OUTLINE OF TYPICAL SITE VISIT SCHEDULE FOR FOLLOW-UP

TEMPLATE FOR FOLLOW-UP REPORT

Quality Assurance and Academic Accreditation Directorate / International Accreditation Department.

Institution: **BAGHDAD UNIVERSITY**

Faculty: **COLLEGE OF VETERINARY MEDICINE**

Programme: **Bachelor in Veterinary Medicine & Surgery**

Follow-up Report

1. This report presents the findings of the follow-up visit, which took place on / /20___. This is part of the Universities Quality Assurance and University Performance departments arrangements to provide continuing support for the development of internal quality assurance processes and continuing improvement
2. The purposes of the follow-up review are to assess the progress made in the programme since the Programme Review report, and to provide further information and support for the continuing improvement of academic standards and quality of higher education in Iraq.
3. The evidence base used in this follow-up review and report includes:
 - a) Self-Evaluation Report for the programme together with supporting information
 - b) Improvement plan prepared and implemented since the Programme Review report
 - c) Programme Review Report
 - d) Higher Education Quality Review Report and institutional strategic plan (if any)
 - e) Additional evidence presented during the follow-up visit.
4. The overall conclusions reached as the outcome of the follow-up review are as follows:
 - a) The programme (give title) at (give name of institution) has/has not successfully implemented an improvement plan.
 - b) Good practice in the indicators demonstrated since the Programme Review site visit includes: (insert)
 - c) Matters of particular importance that should be addressed by the institution in its continuing improvement of the programme are: (insert and indicate if they are, or as yet are not, addressed by the improvement plan).
5. The detailed report is provided in Annexure A below.

Annexure A

Name of Institution _____

Date of initial Programme Review site visit _____

Date visited in follow-up _____

Date of follow-up report _____

Names of follow-up reviewers

Position/title

Signed

Part 1: The Internal Quality Assurance System in operation				
	Questions	Yes? (√)	Comment	Further action required?
1	Is the programme Self- Evaluation Report complete?			
2	Do the most recent self-evaluation reports indicate the extent to which the criteria in the Framework for Evaluation are met and/or are being addressed?			
3	Is there an improvement plan in place, informed by external and internal review?			
4	Are there any major gaps that appear not to be addressed?			
5	Is progress with the improvement plan monitored?			
6	Are there any major obstacles to the expected achievement of the improvement plan?			
7	What is the institution's estimate of the time needed to complete improvements to the programme?			
8	What is the reviewers' assessment of the time needed to complete improvements to the programme that would demonstrate the indicators?			

Part 2: Progress demonstrated with the indicators

Indicators (refer to Framework of Evaluation)	Improvement plan points (comment on match with the Programme Review report's recommendations)	New information from follow-up site visit	Overall conclusion
<u>Curriculum</u> Aims and ILOs Syllabus (content) Progression year on year Teaching and Learning Student assessment			
<u>Efficiency</u> Profile of admitted students Human resources Physical resources Uses made of available resources Student support Ratios of graduation to admitted students			
<u>Academic Standards</u> Clearly articulated standards Use of appropriate benchmarks Achievement of graduates Standards of students' assessed work			
<u>Programme management and Assurance</u> Arrangements for programme management Policies and procedures applied Structured comments collected and used Staff development needs identified and addressed Improvement planning processes working			

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CRITERIA FOR A SUCCESSFUL REVIEW AND EVALUATION OF THE PROCESS

CRITERIA FOR A SUCCESSFUL REVIEW

1. The criteria for a successful review that informs the arrangements for Programme Review and its evaluation are as follows:
 - i. The programme being reviewed is supported by existing or developing internal systems including specifications and review with a culture of self-evaluation and continuing improvement. These features of internal review provide a sound basis for the external review.
 - ii. The timing of the external review is appropriate.
 - iii. The profile of the visiting peer review panel matches in broad terms the profile of the academic activities in the institution.
 - iv. There is due attention to detail in planning and preparation, by -
 - a. The Quality Assurance and Academic Accreditation Directorate applies consistently its procedures for working with the institution and the reviewers and provides appropriate support for the external review as required
 - b. The review coordinator: ensures that the evidence base generated by internal review and reporting systems is available on time to the visiting peer reviewers, and any requirements for clarification and supplementary information are satisfied
 - c. The institution: provides a self-evaluation report for the programme to be externally reviewed
 - d. The peer reviewers: undertake their preparation for the visit including reading the advance documentation and preparing initial commentaries that inform the conduct of the visit
 - v. There is consistency in the application of the published review method and the protocols by all participants in a way that respects and supports the mission and philosophy of the overall process for continuing review and continuing improvement.
 - vi. Reviewers and representatives of the institution conduct an open dialogue throughout the review that shows mutual respect.
 - vii. The judgements reached by the reviewers are clear, based on the evidence available and systematically recorded.
 - viii. The review report is produced on time in line with the standard report structure and is confirmed by the institution to be factually accurate.
 - ix. The set of conclusions arising from the review are constructive, offering a fair and balanced view of the programme.
 - x. The institution is able to benefit from the external review by giving due reflection and consideration to the findings and preparing where appropriate a realistic improvement plan

EVALUATION

2. The Quality Assurance and Academic Accreditation Directorate wishes to establish and implement procedures for the systematic evaluation of all external Programme Reviews arranged by it. The institution, the review chairperson and the peer reviewers will all routinely be asked to evaluate each external review by completing a short questionnaire. The structured comments will be analysed by the Quality Assurance and Academic Accreditation Directorate and where necessary the Quality Assurance and Academic Accreditation Directorate will take action to follow-up any difficulties highlighted. In addition, the Quality Assurance and Academic Accreditation Directorate will collate the structured comments to compile regular summary reports indicating the main features of the review process in practice, including the overall levels of satisfaction expressed by the participants, together with examples of good practice and opportunities for continuing improvement.

GLOSSARY OF TERMS IN PROGRAMME REVIEW

DEFINITIONS OF TERMS USED IN THE PROGRAMME REVIEW HANDBOOK

Some of the terms used in the Handbook and/or used in internal and external review and reporting may have different meanings according to the context in which they are used. To remove possible ambiguities, the following working definitions of the terms are offered.

ADEMIC FIELDS/SUBJECT AREAS/DISCIPLINES

Academic fields categorise recognisable and coherent domains or the scope of study such as Mathematics, Medicine, Engineering and Philosophy. Fields that have a wide scope are often subdivided; for example, Humanities include subjects like History and Literature and Arts may include separate disciplines of Fine Arts and Photography. The curriculum of some programmes may combine academic fields, or may include different subjects and disciplines such as Mathematics in Engineering or Accountancy in Business Administration.

ACADEMIC STANDARDS

Specific standards decided by the institution, and informed by external reference points. They include the minimum or threshold level of knowledge and skills to be gained by the graduates from the programme, and can be used in evaluation and review.

ACCREDITATION

The recognition accorded by an agency or other organisation to either an education programme or to an institution to confirm that it can demonstrate that the programme(s) meet acceptable standards and that the institution has effective systems to ensure the quality and continuing improvement of its academic activities, according to published criteria.

ACTION OR IMPROVEMENT PLANS

Realistic plans for improvement derived from the consideration of available evidence and evaluations; they may be implemented for more than one year, but should be prepared and reviewed annually at each level of courses, programmes and the institution.

ADMITTED STUDENTS

Students registered on a programme, including those accepted holding prior credits for

admission after year 1.

BENCHMARK/REFERENCE POINTS

Benchmark statements represent general expectations about the standards of achievement and general attributes to be expected of a graduate in a given academic field or subject. Reference standards may be external or internal. External reference points allow comparison of the academic standards and quality of a programme with equivalent programmes in Iraq and internationally. Internal reference points may be used to compare one academic field with another, or to identify trends over a given time period.

COMMUNITY

A defined segment of wider society served by the institution, as determined in its mission and bylaws. It may be defined geographically or in terms of the range of organizations, groups and individuals engaged in its activities.

COURSE AIMS

Overall course aims should be expressed as the outcomes to be achieved by students completing the course as significant and assessable qualities. They should contribute to the achievement of defined aims within one or more education programmes.

CURRICULUM OR (IN THE PLURAL) CURRICULA

The complete organised learning as designed and managed by an institution for an admitted student, determined by the intended learning outcomes (ILOs) and comprising the content, the arrangements for teaching and learning and assessments of students' achievements together with the access to the range of facilities available within the University and, by arrangement, outside it, including libraries, computers studies, social, sports, internships and field studies.

DIRECTED SELF-LEARNING/INDEPENDENT LEARNING

The active promotion of personal skills included in the curriculum that support the student and graduate to seek, assimilate and learn from a range of structured and unstructured experiences. Methods of promotion include e-learning, personal and autonomous learning and fieldwork, assignments, internships, and reflexive learning. Devices commonly used that support directed self-learning beyond formal teaching lectures include logbooks, self-assessment reports, interactive learning tools or the equivalent.

E-LEARNING

Electronic-based learning using information technology may be the primary or secondary element in material associated with a programme or a course. It may be stand-alone or integrated with other teaching and learning approaches. It may include self-determination of aims, ILOs and materials using self-selection and will usually include self-assessment. It generally increases the levels of autonomy in, and responsibility for, learning. Converting existing texts or lecture notes to a website or pre-recorded media alone is generally not considered to be e-learning.

EXTERNAL EVALUATOR/EVALUATION

An appointment to a specific programme, part of a programme or course(s) by the institution

to establish an independent and external professional opinion on the academic standards set and achieved in the examinations for the award of the degree.

FRAMEWORK FOR EVALUATION

The framework for evaluation provides a standard structure for evaluation of programmes. It will form the basis for self-evaluation, the site visit by external peer reviewers and the Programme Review report. It is designed to operate in all academic fields and institutions, and to apply to internal and external reviews.

GENERAL PRECEPTS/BY-LAWS

Principles, by-laws and regulations, which the educational institution must have as part of the policies covering its operations.

HIGHER EDUCATION INSTITUTE (HEI)/INSTITUTION

A Faculty, College or University providing higher education programmes leading to a first university degree (B.Sc. or B.A.) or a higher degree.

INTENDED LEARNING OUTCOMES (ILOS)

The ILOs are the outcome-related definition of knowledge, understanding and skills which the institution intends for its programmes. They should be mission-related, capable of measurement (assessable) and reflect the use of external reference standards at appropriate level.

INTERNAL SYSTEM FOR QUALITY MANAGEMENT AND ASSURANCE

The system adopted by the institution to ensure that its education programmes and contributing elements meet specified needs and are continually reviewed and improved. An outcomes-related system of quality management involves precise specifications for quality from design to delivery; evaluation; the identification of good practice as well as of learning deficiencies and obstacles; performance follow-up; suggestions for development and enhancement; and the systematic review and development of processes for establishing effective policies, strategies and priorities to support continuing improvement.

JOB/LABOUR MARKET

The availability of professional, commercial, research-oriented or other fields of employment that a graduate is qualified to join upon graduation.

MISSION STATEMENT

A brief statement clearly identifying the educational institution's duty and its role in the development of the community; a mission statement may also offer brief supporting statements on the vision, values and strategic objectives of the institution.

PEER REVIEWER

A person who is professionally equal in calibre and with management and/or subject expertise to those delivering the provision, but not from the same institution and without any conflict of

interest, who can contribute to the review of an education programme for internal and external quality assurance or for accreditation purposes.

PROGRAMME

For the purpose of Programme Review an education programme is defined as one which admits students who, on successful completion, receive an academic award.

PROGRAMME AIMS

The broad purposes for providing the programme which in turn guide the development and implementation of strategic objectives (to ensure that the aims are met) and ILOs (to ensure that the students work towards attaining the specified outcomes).

PROGRAMME REVIEW

Programme Review applies to all education programmes in all higher education institutions. Where the programme is studied in more than one institution, the whole programme is included in Programme Review. Programme Review in Iraq has three objectives:

- 1) To provide decision-makers (in the higher education institutions, Quality Assurance and Academic Accreditation Directorate, parents, students, and other stakeholders) with evidence-based judgements on the quality of learning programmes
- 2) To support the development of internal quality assurance processes with information on emerging good practice and challenges, evaluative comment and continuing improvement
- 3) To enhance the reputation of Iraq's higher education internationally.

QUALITY ASSURANCE

The institution has the means of assuring that for each education programme, academic standards are defined and achieved in line with equivalent national and international standards, that the quality of the curriculum and related infrastructure are appropriate and fulfil the expectations of the range of stakeholders, that its graduates represent the range of attributes specified and that the organisation is capable of sustained, continuing improvement.

REVIEW COORDINATOR

The nominee of an institution to coordinate a Programme Review to assist in the gathering and interpretation of information and to support the application of published methods of review.

REPORT

The regular reports prepared on the basis of Programme Reviews and evaluations of its education programme.

SELF-EVALUATION

An institution's process of evaluating a programme as part of Programme Review and within an internal system of quality management and assurance.

SITE VISIT

A scheduled visit by external peer reviewers as part of Programme Review. Normally the site visit will be for two or three days. A typical outline timetable is provided in Appendix(1).

SPECIFICATION

The detailed description of the aims, construction and intended outcomes of a programme, and any courses, specific facilities or resources that contribute to it. The specification provides information to design, manage, deliver and review the programme.

STAKEHOLDER

Those organisations, groups or individuals which have a legitimate interest in the educational activities of the institution both in respect of the quality and standards of the education and also in respect of the effectiveness of the systems and processes for assuring the quality. An effective strategic review process will include the key stakeholder groups. The precise range of stakeholder groups and their differentiated interests depend upon the mission of the institution, its range of educational activities and local circumstances. The range is usually defined by a scoping study. Examples of groups with a legitimate interest include current students, graduates, intending students and their parents or family, staff in the institution, the employing community, the relevant Government ministries, the sponsors and other funding organisations and, where appropriate, professional organisations or syndicates.

STRATEGIC OBJECTIVES/PLANS

A collection of institution-specific objectives that are derived from its mission and developed into a realistic plan based on evidence-based evaluations. Objectives concentrate on the means by which an institution seeks to deliver its mission. The plan sets out the matters to be addressed, timeframe, person responsible and estimate of costs, and is accompanied by an implementation plan with arrangements for monitoring the progress and evaluating impact.

STUDENTS' ASSESSMENT

A set of processes, including examinations and other activities conducted by the institution to measure the achievement of the intended learning outcomes of a programme and its courses. Assessments also provide the means by which students are ranked according to their achievement. Diagnostic assessment seeks to determine the existing range of knowledge and skills of a student with a view to constructing an appropriate curriculum. Formative assessment provides information on the student's performance and progress to support further learning, without necessarily counting a grade towards graduation. Summative assessment determines the final level of attainment of the student on the programme or at the end of a course that contributes credits to the programme.

STUDENTS' EVALUATIONS

The systematic gathering of students' opinions on the quality of their programme in a standardized structure together with the analysis and outcomes. Surveys using questionnaires are the most frequently used methods to collect opinions; other mechanisms include websites conferences, panels or focus groups, and representation on councils or other committees.

TEACHING AND LEARNING METHODS

The range of methods used by teachers to help students to achieve the ILOs for the course.

Examples include: lectures, small group teaching such as tutorials, seminars and syndicate groups; a case study to teach students how to analyse information and reach a decision; assignments such as writing a review paper for the students to gain the skills of self-learning and presentation; field trips; practical sessions for the students to gain practical skills; and carrying out experiments to train the students to analyse the results, reach specific conclusions and prepare a report, presentation or poster.