Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department

Academic Program and Course Description

2024

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: University of Baghdad

Faculty/Institute: Collage of Veterinary Medicine

Number of Scientific Department: 9

Academic or Professional Program Name: Bachelor of Surgery and Veterinary Medicine

Final Certificate Name Bachelor of Surgery and Veterinary Medicine

Academic System: Terms

Description Preparation Date:11/4/2024

File Completion Date:11/4/2024

Signature:

Scientific Associate Name:

Date: /4/2024

The file is checked by:

Departmentof Quality Assurance and University Performance

Director of the Quality Assurance and UniversityPerformance Department:

Date: 11/4/2024

Signature:

DEAN OFFICE College of veterinary medicine

Approval of the Dean

9. Aims of the Program.

1- 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.

2-The programme provides, in the early years, a broad-based knowledge and understanding of the range of Biomedical subjects.

3-The wide range of courses offered in the study years allows students to specialize in particular areas within a discipline or cover a broad curriculum.-

4- Most importantly courses are designed specifically around the research interests of the academic staff there by introducing some of the major biomedical and veterinary issues and controversies of the day.

10. Learning Outcomes, Teaching, Learning and Assessment Methods

A. Knowledge and Understanding

A1.Knowlege of basic concepts in animal health and nutritional status of an animal and be able to advice on appropriate husbandry and feeding.

A2. Knowledge of basic concepts in animal production

A3. Knowledge of basic concepts in animal handling and restrain animals safely and humanely whilst ensuring

personal safety and that of others in the vicinity.

A4.Knowlege and familiarity with diseases diagnosis and treatment

A5.Knowlege and Familiarity with the practice of surgical and obstetric

A6. Familiarity with some moral values, social and religious

B. Subject-specific skills

B1. Communicate effectively with the public, professional colleagues and

appropriate authorities.

B2. Work in a professional manner with regard to the veterinarian's professional and legal responsibilities and understand and apply the ethical codes.

B3. Respond appropriately to the influence of economic and emotional pressures

B4. Provide emergency care to all species of animals.

Teaching and Learning Methods

1-Establishment of a clear mission for each of the related clinical subjects.

2-Description of detailed course specification of each of the related clinical subjects with clear course contents, intended learning outcomes, methods of assessment, grading system and sources of teaching.

3-Description of recent methods teaching and student learning.

4-Description of methods of students' assessments in relation to the described intended learning outcomes.

Assessment methods

Examinations :-

Time Schedule

Grading system

Self-learning assignment

Evaluation of small group learning

C. Thinking Skills

C1. Thinking and problem-solving method of use

C2.The ability to achieve commitment and responsibility and leadership towards excellence and creativity in the field of profession

C3.the ability to perceive relationships and link them in different positions

Teaching and Learning Methods

1- Lectures

2-Practical sections

3-Field conveys

4-Samanarat

5-Discussion groups

6- Teamwork

Assessment methods :

1.Description of recent methods teaching and student learning.

2.Description of methods of students' assessments in relation to the described intended learning outcomes Short tests

3.Questions of dialogue and discussions within lectures

4.Assigning student research work related to the decision .

5.Try to know the student's mistakes and corrected him

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

D1. Acquire the skills to use laboratory equipment and pathological analyzes, Collect, preserve and transport samples; perform standard practice laboratory techniques; interpret laboratory results (and results of other ancillary diagnostic aids) and integrate with clinical information.

D2. Work effectively as a member of a multi disciplinary team in the delivery of services to clients and employers.

D3. The acquisition of skills in project management

D4. Demonstrate a practical ability to apply knowledge of disease processes within a clinical environment.

Teaching and Learning Methods

1.From an early stage, the concurrent demands of different components of the programme encourage the development of effective planning.

2.Assigning student research work related to the decision.

3.Try to know the student's mistakes and corrected him

4.Through engaging with the programme of work within the degree programme

Assessment Methods

Recognize their own limitations; recognize when to seek assistance and understand the protocols for dealing with second opinions.

Produce reports in a form that is satisfactory and understandable to the intended audience.

Examination of their respond appropriately to the influence of economic and emotional

pressures.				
11. Programme Structure				12. Awards and Credits
Level/Year	Course or Module Code	Course or Module Title	Credit rating	
First/2semester	Anatomy1/1 Animal/1 management Chemistry/1 Computer Biology/1 Democratic and human English language Arabic Language Anatomy1/2 Animal/2 management Chemistry/2 Computer Biology/2 Democratic and human	ANT ANM CHM1401 COM BIO ENG ANG ANM CHM1401 COM BIO ENG ANG	3 3 4 1 3 2 1 1 3 3 4 1 3 2 1	Bachelor Degree Requires (218) credits

	English language Arabic Language		1
Second /2semester	Anatomy2/1 Histology/1 Animal nutrition2/1 Biochemistry/1 Physiology/1 Genetics English Language Computer Anatomy2/2 Histology/2 Animal nutrition2/2 Biochemistry/2 Physiology/2 Embryology Statics English Language Computer	ANT HIS ANN BCH2402 PHY2502 GEN ENG COM ANT HIS ANN BCH2402 PHY2502 EMB ST	3 3 3 4 5 2 1 1 3 3 3 4 5 2 1 1

		ENG COM	
Third/2semester	Microbiology/1 Pathology/1 Parasitology/1 Pharmacology/1 Immunology Toxicology English Language	MIC PAT PAR PHR3402 IMN TOX3201 ENG	4 4.5 4 4 3 2 1
	Microbiology/1 Pathology/1 Parasitology/1 Pharmacology/1 Virology Clinic English Language	MIC PAT PAR PHR3402 IMN CLN ENG	4 4 4 3 1 1

Fourth/2semester	Surgery/1	SUR	3
	Poultry diseases/1	POU	3
	Clinical pathology/1	CLP	2
	Theriogenology	THE	3
	Medicine	MED	3
	Infectious diseases &epidemiology	INF	3
	Milk Health	MLH	3
	Clinic	CLN	2
	Pathology anatomy/1	PAT	2
	English language	ENG	1
	Surgery/2	SUR	3
	Poultry diseases/2	POU	3
	Clinical pathology/2	CLP	2
	Theriogenology	THE	3
	Medicine	MED	3
	Infectious diseases &epidemiology	INF	3
	Zoonatic diseases	ZON	2
	Clinic	CLN	2
	Pathology anatomy/1	PAT	2
	English language	ENG	1

Fifth/2semester	Clinic	CLN	7
	Veterinary public health	VPH	3
	Medicine	MED	3
	Fish diseases	FDS	3
	Obstetric	OBS	2
	Surgery	SUR	3
	Research project	RES	1
	Clinic	CLN	6
	Reproduction technologies	RT	2
	Veterinary public health	VPH	2
		VPB	1
	Veterinary professional behavior	MED	3
		FM	1
	Medicine	OBS	2
	Forensic medicine	SUR	3
	Obstetric	RES	1
	Surgery		
	Research project		

13. Personal Development Planning
Prepare a generation able to follow each new. Conduct themselves in a professional manner with regard to the veterinarian's professional and legal responsibilities and understand and apply the ethical codes. Foster and maintain a good professional relationship with clients and colleagues, developing mutual trust and respecting their professional views and confidentiality. Personal development arises as a consequence of interactions with other students, staff and the students' academic advisors. The ability to work in large or small groups and the collaborative skills required when working with unfamiliar colleagues is a feature of group work in some of the larger courses in earlier years.
14. Admission criteria .
According to central acceptance from Iraqi 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 programs

2-Description of detailed course specification of each of the related clinical subjects with clear course contents, intended learning outcomes, methods of assessment, grading system and sources of teaching.

3- Reference to the instructions regarding the University of Baghdad vocabulary curriculum and instruction exams

Course Description Form

1. Course Name:
Surgery -P1, P2, / obstetrics, female fertility, male fertility, reproductive technique. Clinic
2. Course Code:
3. Semester / Year:
4th, 5th, / 4th, 4th, 5th, 5th, Surgery 4th and 5th / obstetrics 4th and 5th
4. Description Preparation Date:
5. Available Attendance Forms:
6. Number of Credit Hours (Total) / Number of Units (Total)
45hrs. theoretical +30hrs. Practical / 30hrs. Theoretical+ 30hrs. Practical/ 30hrs. Theoretical and 30hrs. practical 360 hrs. / Year clinic surgery + 360hrs. / Year clinic obstetrics.
7. Course administrator's name (mention all, if more than one name)
Name: Hameed Ali Kadhim, Areej Kamel, Ahmed Hameed, Aseel Kamel, Eetlaf Al-Muthafer, Nadia Hameed Talib Musa, Suhayla Onies, Saad Akram, Najlaa Sami, Nazeh Wais, Enas Ali, Imad Majeed, Email: Enas.a@covm.uobaghdad.edu.iq
8. Course Objectives

Course Objectives	Knowledge and Understanding
	• **SURGERY/ OBSTETRICS/ X RAY/**

	ANESTHESIA • **SONAR/ LAPAROSCOPY** • **LEARNING OF BASIC VET OBESTRIC** • **TREATMENT OF DISEASE** • **LEARNING OF ARTIFICIAL INSEMINATION** • **LEARNING REPRODUCTIVE TECHNIQUES**

9. Teaching and Learning Strategies

Strategy	

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	45hrs. total	Surgery /P1 4th class Theoretical	**1**-Introduction and classification of surgery **2**-Sterilization (physical, chemical, modern technique for fertilization) **3**-Shock and fluid therapy Wounds **4**-Hemorrhage and hemostasis **5**-Abscess, hematoma, cysts **6**-Fistula, sinus, ulcer, gangrene Tumor, burn **7**-Radiology: (definition, principle, properties, types, and factors affect X-Ray **8**-Contrast radiology **9**-Protection of X-Ray and hazards **10**-Modern diagnostic aids: (CT scan, MRI, Ultrasound, digital X-Ray, Gamma camera). **11**-Fractures: (definition, etiology, classification, treatment, fracture healing, complication)	Field and lab, Lectures	DAILY AND SEMESTER
15	30hrs	Surgery /P1	1- Introduction to surgical theater	Field and lab,	DAILY

	total	4th class Practical	2- Sterilization 3- Surgical instruments 4- Pre-operative preparation 5- Suture and ligature (suture material and suture pattern) 6- X-Ray 7- Fracture	Lectures	AND SEMESTER
15	45hrs total	Surgery /P2 4th class Theoretical	1- Anesthesia (detention and terms) 2- Introduction of anesthesia, factors affecting anesthesia 3- Pre-anesthesia 4- Muscle relaxant 5- Local anesthesia 6- General anesthesia 7- Anesthetic accidents 8- Lameness 9- Laser surgery 10- Endoscopic and laparoscopic surgery	Field and lab, lectures	DAILY AND SEMESTER
15	30hrs total	Surgery/P2 4th class Practical	1- Local anesthesia 2- General anesthesia 3- Intra-articular injection 4- Tendon surgery 5- Laser and endoscopic surgery 6- Docking and dehorning	Field and lab, Lectures	DAILY AND SEMESTER
15	30hrs total	Surgery/P1 5th class Theoretical	1- Digestive system (Affections of salivary glands and tongue) 2- Affections of teeth 3- Affections of soft and hard palate 4- Affections of pharynx 5- Affections of esophagus 6- Affections of simple stomach 7- Affections of large stomach 8- Affections of digestive accessory organs 9- Hernia 10- Cardiovascular system 11- Ear surgery: ear hematoma, ear trimming 12- Eye surgery 13- Central nervus system 1- Digestive system: Extraction of teeth 2- Partial glossectomy 3- Esophgotomy	Field and lab, Lectures	DAILY AND SEMESTER

			4- Gastrotomy 5- Pyloroplasty and pyloromyotomy 6- Enterotomy 7- Enterectomy 8- Rumenotomy 9- Partial and total splenectomy 10- Partial hepatectomy 11- Ear surgery 12- Ectropian and entropian		
15	30hrs total	Surgery/P2 5th class Theoretical	1- Respiratory system: Affection of nostrils and nasal cavity 2- Affection of sinuses and guttural pouch 3- Affection of larynx and trachea 4- Affection of lung 5- Affection of wall 6- Male genital system: affection of penis and prepuce Preparation of teaser, Castration 7- Female genital system: Ovariectomy and ovariohysterectomy, caesarian section, rectovaginal fistula, treatment of pneumo-vagina 8- Urinary system: Affection of kidney and ureter, Affection of urinary bladder, Affection of urethra 9- Mammary gland: Affection of mammary gland, teat surgery	Field and lab, lectures	DAILY AND SEMESTER
15	30hrs total	Surgery/P2 5th class Practical	1- Respiratory system: Trephining 2- Laryngectomy 3- Tracheotomy 4- Rib resection 5- Thoracotomy 6- Urinal system: Nephrectomy and nephrotomy 7- Cystotomy and cystectomy 8- Urethrostomy, urethrotomy, and urethral fistula 9- Male genital system: Castration 10- Penis surgery: circumcision, reefing operation, amputation of penis 11- Female genital system: ovariectomy and ovariohysterectomy, caesarian	Field and lab, lectures	DAILY AND SEMESTER

			section 12- Mammectomy 13- Teat fistula		
15	30hrs total	Obstetrics / Female fertility / 4th class Theoretical Obstetrics /	1- Anatomy of the female genitalia 2- Puberty and maturity 3- Estrus cycle in animals 4- Estrus detection 5- Seasonality and its effect on reproduction 6- Reproductive hormones 7- Infertility and sterility 8- Reproduction in mare 9- Reproduction in buffalo and camels 10- Reproduction in dogs and cats.	Field and lab, lectures	DAILY AND SEMESTER
15	30hrs total	Female fertility / 4th class Practical	1- Anatomy of the animals' female genitalia 2- Examination of animal's female genitalia 3- Measurements of animal's female genitalia 4- Uses of reproduction hormones 5- Vaginal and uterine samples 6- Anomalies of animal's female genitalia 7- Intrauterine therapy 8- Reproductive performance	Field and lab, lectures	DAILY AND SEMESTER
15	30hrs total	Obstetrics / Obstetrics 2nd S./ class Theoretical	1- Maternal recognition of pregnancy 2- Factors effecting pregnancy period (normal and abnormal) 3- Fetal membrane and its problems 4- Pregnancy problems 5- Signs of approaching parturition 6- Stages of parturition 7- Retention of fetal membranes 8- The puerperium period. 9- The puerperium period problems	Field and lab, lectures	DAILY AND SEMESTER
15	30hrs total	Obstetrics / Obstetrics 2nd S 4th class Practical	1- The normal position of the fetus in the birth canal 2- Abnormal position of the fetus in the birth canal 3- Correction of abnormal fetal positions 4- Causes of dystocia in animals	Field and lab, lectures	DAILY AND SEMESTER

			5- Forced extraction 6- Fetotomy 7- Cesarean section 8- Anatomical and histological division of the embryonic membranes		
15	30hrs total	Obstetrics / male fertility / 5th clas Theoretical	1- Male puberty and maturity 2- Hormonal control of male reproductive system 3- Spermatogenesis 4- Composition of semen 5- Sperm metabolism 6- Methods of semen collection 7- Methods of semen evaluation 8- Methods of semen dilution 9- Methods of semen storage 10- Artificial insemination and sperm transport 11- Infertility in the male animals.	Field and lab, lectures	DAILY AND SEMESTER
15	30hrs total	Obstetrics/male fertility / 5th clas Practical	1- Anatomy of male genital organs 2- Breeding soundness 3- Semen collection 4- Semen evaluation (Macroscopically, volume, color) 5- Semen evaluation (Microscopically mass and individual motility) 6- Semen evaluation (Dead, live, and abnormal percentage) 7- Semen dilution 8- Semen storage (Liquid) 9- Semen storage (Frozen) 10- Insemination techniques 11- Infertility in the male animals	Field and lab, lectures	DAILY AND SEMESTER
15	30hrs total	Obstetrics/ reproductive technology/ class Theoretical	1- Ultrasonography – general information 2- Ultrasonography in large animals 3- Ultrasonography in small animals 4- Estrus synchronization in bovine 5- Estrus synchronization in ovine and caprine 6- Controlling the age of puberty 7- Super ovulation 8- Embryo transfer 9- Laparoscopic intrauterine	Field and lab, lectures	DAILY AND SEMESTER

			insemination 10- Methods of oocyte collection and maturation 11- Invitro fertilization 12- Sperm sexing 13- Cloning and splitting of embryo 14- Suppress of reproductive activity		
15	30hrs total	Obstetrics/ reproductive technology/ 5th class Practical	1- Clinical application of ultrasonography 2- Estrus synchronization 3- Controlling the age of puberty 4- Super ovulation 5- Embryo transfer 6- Intrauterine insemination 7- Methods of oocyte collection and maturation 8- Invitro fertilization 9- Sperm sexing (gender selection) 10- Cloning and splitting of embryo 11- Suppress of reproductive activity	Field and lab, lectures	DAILY AND SEMESTER

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

12. Learning and Teaching Resources	
Required textbooks (curricular books, if any)	
Main references (sources)	Books and thesis's
Recommended books and references (scientific journals, reports...)	1. LECTURAL LECTURE 2. FEMALE FERTILITY AND DIESESE 3. MALE FERTILITY AND DISEASE 4. ARTIFICIAL INSEMINATION 5. REPRODUCTIVE AND OBETETRICS 6. THESIS AND DESERTATIONS 7. ANIMALS SURGERY
Electronic References, Websites	• Scientific web sites

Course Description Form

13.Course Name:
2.Course Code: 1. pathology /third class (pathology) 2. poultry disease/fourth class (poult.) 3.fish disease/fifth class (fish) 4.Morbidity 5--Morbid Anatomy- 5-Forensic medicine

14.Semester / Year:
15.Description Preparation Date:
16.Available Attendance Forms:
17.Number of Credit Hours (Total) / Number of Units (Total)
1. pathology /third class (pathology) 2. hours theoretical/week, 2 hours practical/week 2. poultry disease/fourth class (poult.) 2 hours theoretical/week, 2 hours practical/week 3. fish disease/fifth class (fish) one semesters/year 2 hours theoretical/week, 2 hours practical/week 4. - Forensic medicine 5-morbid 1 hours theoretical/week, 2 hours practical/week

18. Course administrator's name (mention all, if more than one name)

Name:

Email:

19. Course Objectives

Course Objectives	• Study different animal diseases • Improve students' ability to deal with different animal diseases. • Use scientific approaches to identify, diagnose, and treat infected animals.

20. Teaching and Learning Strategies

Strategy	Using multi scientific methods such as theoretical and laboratory tools as well as different websites to present clinical cases.

21. Course Structure: Pathology, Morbid Anatomy, and Poultry Diseases

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1	**3rd year Pathology**	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	Theoretical lecture	Written examination

			2-hydropic (vacuolar) degeneration 3-Fatty degeneration 4-Hyaline degeneration 5-Fibrinoid degeneration		
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	Theoretical lecture	Written examination

			congestion Edema Thrombus and embolism Atherosclerosis Shock		
7	1		Disturbance of growth Atrophy, Hypoplasia Hypertrophy, Hyperplasia Metaplasia ,Anomalies and transformations	Theoretical lecture	Written examination
	1		Mid-Term Examination 8th 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	Theoretical lecture	Written examination

			Pathogenesis 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
		4th class Morbid Anatomy			

1	1		TB, Leptospirosis	Theoretical lecture	Written examination
2	1		Actinomycosis and Actinobacillosis	Theoretical lecture	Written examination
3	1		Colibacillosis, CBPP	Theoretical lecture	Written examination
4	1		FMD	Theoretical lecture	Written examination
5	1		Listeriosis	Theoretical lecture	Written examination
6	1		Sheep Pox	Theoretical lecture	Written examination
7	1		Contagious acthyma	Theoretical lecture	Written examination
8	1		Black disease	Theoretical lecture	Written examination
9	1		Black leg disease	Theoretical lecture	Written examination
10	1		Anthrax	Theoretical lecture	Written examination
11	1		Brucellosis	Theoretical lecture	Written examination
12	1		Malignant catarrhal diarrhea	Theoretical lecture	Written examination
13	1		Babesiosis	Theoretical lecture	Written examination
14	1		Anaplasmosis	Theoretical lecture	Written examination
1	2		Post mortem necropsy for large animal	Practical lecture	Slide examination
2	2		Post mortem necropsy for small animal	Practical lecture	Slide examination
3	2		slides for TB,Leptospirosis	Practical lecture	Slide examination

4	2		Slides for Actinomycosis and actinobacillosis	Practical lecture	Slide examination
5	2		Slides for Colibacillosis ,CBPP	Practical lecture	Slide examination
6	2		Slides for FMD	Practical lecture	Slide examination
7	2		Slides for Listeriosis	Practical lecture	Slide examination
8	2		Slides for Sheep Pox	Practical lecture	Slide examination
9	2		Slides for Contagious Ecthyma	Practical lecture	Slide examination
10	2		Slides for Black disease	Practical lecture	Slide examination
11	2		Slides for Black leg disease	Practical lecture	Slide examination
12	2		Slides for Anthrax	Practical lecture	Slide examination
13	2		Slides for Brucellosis	Practical lecture	Slide examination
14	2		Slides for Malignant catarrhal diarrhea, Babesiosis	Practical lecture	Slide examination
15	2		Slides for Anaplasmosis, Theileriosis	Practical lecture	Slide examination
		4th year poultry diseases			
1-2	4		Gumboro Disease Newcastle Disease Avian influenza	Theoretical lecture	Written examination
3-4	4		MareksDisease Lymphoid leukosis Avian encephalomyelitis Infectious stunting syndrome	Theoretical lecture	Written examination
5-6-7	4		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	Theoretical	Written examination

			ILT Duck viral hepatitis	lecture	
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	Written examination
4	8		Newcastle Disease Avian influenza	Practical lecture	Written examination
5	8		Gumboro Disease Viral arthritis	Practical lecture	Written examination
6	8		MareksDisease Lymphoid leukosis	Practical lecture	Written examination
7	8		Avian encephalomyelitis Infectious stunting syndrome	Practical lecture	Written examination
8	8		Pox Disease CIA	Practical lecture	Written examination
9	8		Adeno virus diseases (EDS,HHS,IBH)	Practical lecture	Written examination
10	8		Semester Exam	Practical lecture	Written examination
11			Infectious Bronchitis ILT Duck viral hepatitis	Practical lecture	Written examination
12	8		Mycoplasma diseases	Practical lecture	Written examination
13	8		Fowl cholera disease Infectious coryza disease	Practical lecture	Written examination

22.Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

23.Learning and Teaching Resources	
Required textbooks (curricular books, if any)	Pathologic basis of Vet. Diseases, Poultry Diseases (David Swayne), Fish Disease: Diagnosis and Treatment (Edward Noga)
Main references (sources)	Pathology of Domestic Animals, Pathologic basis of Vet. Diseases
Recommended books and references (scientific journals, reports...)	Avian Histopathology, Vet. Immunology
Electronic References, Websites	https://vetpath.wordpress.com/about/ https://www.msd-animal-health.ie/species/horses/strangles/

Course Description Form

24. Course Name:veterinary parasitology
25. Course Code:

26. Semester / Year: (under grad)3rd year vet school students/(grad students)PhD / MSc students

27. Description Preparation Date:

28.Available Attendance Forms:

29.Number of Credit Hours (Total) / Number of Units (Total)

Undergraduate program (90hrs) / PhD ( ) MSc ()

30. Course administrator's name (mention all, if more than one name)

Name: Dr. Amer Rasool Alhaboubi (Assistance of department head)

Email:arussul@covm.uobaghdad.edu.iq

31. Course Objectives

Course Objectives	• Identify the types of parasites**....** • Improve students' ability to diagnose and clinical signs. • Reduce losses resulting from infection and the methods of control**.**

32. Teaching and Learning Strategies

Strategy	Lectures in theory and practice as well as media in diagrams , films

33. Course Structure (post-graduate programs)

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	12	Parasitology	Trematoda	Lectures	Exams
5-8	12	Parasitology	Cestode	Lectures	Short Qs
9-15	21	Parasitology	Nematoda	Lectures	Homework
16-23	24	Parasitology	Protozoa	Lectures	
24-30	21	Parasitology	Arthropoda		

34. Course Evaluation
Annualevaluation through courses outcomes and students' results and lecturer success rates in thestudent faculty evaluations

35. Learning and Teaching Resources	
COURSE MATERIALS	Soulsby (1982)
Special requirements (include for examp workshops, periodicals, IT software, websites)	Tylor (2007)
Community-based facilities	Vet. Parasitol. J, Parasitology ReS. j
Guest Lectures , internship , field studies)	CDC. Web.

Course Description Form

36. Course Name:
Veterinary public health
37. Course Code:
38. Semester / Year: (under grad)1,2,5th year vet school students/(grad students)PhD / MSc students
39. Description Preparation Date:
40.Available Attendance Forms:
41.Number of Credit Hours (Total) / Number of Units (Total)
Undergraduate program (120hrs) / PhD ( ) MSc ()
42. Course administrator's name (mention all, if more than one name)
Name: Dr. Jassim Edan Qasim (Assistance of department head)

Email: Jassim@covm.uobaghdad.edu.iq

43. Course Objectives

Course Objectives	• Identify the animal management and nutrition • Improve students' ability to animal and food hygiene • Reduce contamination and the methods of control.

44. Teaching and Learning Strategies

Strategy	Lectures in theory and practice

45. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1-4	12	Public health	Animal and poultry management .	Lectures	Exams
5-8	12	Public health		Lectures	Short Qs
9-15	21	Public health	Animal nutrition	Lectures	Homework
16-23	24		Food hyagiene	Lectures	
24-30	2	Public health Public health Public health	Milk and meat hyagiene		

46. Course Evaluation

Annual evaluation through courses outcomes and students' results and lecturer success rates in the student faculty evaluations

47. Learning and Teaching Resources ***McDonald Book***

Special requirements (include for examp workshops, periodicals, IT softwar	

websites)	***McDonald Book ,2019***
Community-based facilities	Vet Book, Animal Management 2023
Guest Lectures , internship , field studies)	Text book of milk hygiene 2014
Special requirements (include for examp workshops, periodicals, IT softwar websites)	Text Book of meat Hygiene W. Ernst-Browning 2016

Course Description Form

48. Course Name:
Anatomy
49. Course Code:
ANAT. I:
50. Semester / Year:
Year:2024
51. Description Preparation Date:
2024
52.Available Attendance Forms:
53.Number of Credit Hours (Total) / Number of Units (Total)
4 Number of Units (Total)081 ,theotrical 4.practical 1
54. Course administrator's name (mention all, if more than one name)

Name: dr.Hadaf Hashem Mohammed

Email:hadaf.hm@covm.uobaghdad.edu.iq

55. Course Objectives

Course Objectives	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 • ..... • ..... • .....

56. Teaching and Learning Strategies

Strategy	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

57. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
151	4 weekly 180 hours	**Introduction**,	Theoretical lecture	Lectures	Written examination
		General Osteology,	Theoretical lecture	Lectures	Written examination
		Myology:	Theoretical lecture	Lectures	Written examination
		General Syndesmology (arthrology):	Theoretical lecture	Lectures	Written examination
		Common integument	Theoretical lecture	Lectures	Written examination
		Cardiovascular system (heart & arteries):	Theoretical lecture	Lectures	Written examination
		Mammary gland:	Theoretical lecture	Lectures	Written examination
		Urinary system			Written examination
		General Syndesmology (arthrology):			=
		Common integument			=

		Introduction,			=
		General Osteology,			=
		Myology:			
		General Syndesmology (arthrology):			
		Common integument			
		Endocrine gland			
		Bones of thoracic limb &joints, scapula of horse & comparative anatomy			Spot examination
		Humerus& comparative anatomy			
		Radius & ulna with comparison			
		Carpal, metacarpal & phalanges in horse			
		Circulatory system: pericardium,			

		heart, chambers of heart, major vessels of the heart			
		Endocrine gland			
		Bones of thoracic limb &joints, scapula of horse & comparative anatomy			
		Humerus& comparative anatomy			
		Muscles of the shoulder girdle of the sheep			
		Lateral surface of shoulder & arm muscles in sheep			
		Dissection of intrinsic muscles of shoulder & arm			
		Muscles of the forearm &manus (extensor & flexor)			
		Arteries & nerves of the thoracic limb in sheep			
		Thoracic & lumbar vertebrae, sacrum in horse			
		Ribs & sternum in			

		horse			
		Arteries & nerves of the thoracic limb in sheep			
		Arteries & nerves of the thoracic limb in sheep			
		Thoracic & lumbar vertebrae, sacrum in horse			

58. Course Evaluation

Examination:1-

Written mid-term

Written final –term

Practical final –term

59. Learning and Teaching Resources

Required textbooks (curricular books, if any)	. 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)**	
Main references (sources)		
Recommended books and references (scientific journals, reports...)		
Electronic References, Websites	Google scolar	

Course Description Form

60.	Course Name: physiology
61.	Course Code:Animal physiology / PHY2502
62.	Semester / Year:2024
63.	Description Preparation Date:2024
64.Available Attendance Forms:	

65.Number of Credit Hours (Total) /4 Number of Units (Total) 180,theotrical 4.practical 1

66. Course administrator's name (mention all, if more than one name)

Name: dr. Hassan k. algataa

Email:

67. Course Objectives

Course ObjectivesThis course is designed so that the student of second year will achieve a general understanding about:-.

- normal functions of different systems in mammals and poultry

Normal behavior of animals

knowledge and understanding of the normal physiological basis of organ function and homeostasis

The laboratory portion of this course will emphasize introductory exercises, experimental techniques, and data collection of physiological variables.

68. Teaching and Learning Strategies

Strategy

A- Knowledge and Understanding

A1.The student will have a comprehensive knowledge and ur normal functions of cell organelles

A2.Functions of different body systems and interaction betwee different physiological conditions

A3. Knowledge about the interaction between body systems physiological conditions

A4. The interaction responses between different body systems non physiological conditions

A5Know the type and methods of completion .Laboratory tests fo

	systems A6 .How to read and analyze the laboratory tests results

69. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluatio method
15	4 weekly 180 hours	Introduction to Physiology 1 The cell and its functions(Organization ofthecell,membranousstructuresofthecell,cytoplasmanditsorganellesfunctionalsystemsofthecell,Transportofsubstancesthroughthecell membrane, radiation and metabolism of energy muscleNerve(structure of the nerve cell, membrane potentials and action potentials, origin of the normal resting membrane potential,nerveactionpotential,initiationoftheaction potential, specialcharacteristicsofsignaltransmissioninnervetrunks, synapses, neurotransmitters and the neuromuscular junction Muscle(types ofmusclesandstructures,General mechanism of muscle contraction,molecularmechanismofmuscle contraction, molecular characteristics of the contractile filaments,energetics of muscle contraction, characteristics of whole muscle contraction,mechanicsofskeletalmusclecontraction,rigor mortis and physiology of cardiac muscle). Cardiovascular system(Structure oftheheart,and course ofblood flow through the heart chambers and heart valves, cardiac cycle, heartsounds,theelectrocardiogramcardiacoutput,bloodflow in vessels, blood pressure, capillary circulation, venous circulation,cardiovascularregulatorymechanisms,innervat	its Cell physiology Physiology of Nerve and muscle Autonomic Nervous system Cardiovascular System	Oral Examination Examination daily evaluation 3- Reports writing	Gui

		ion of the blood vessels, cardiac innervation, vasomotor center, baroreceptors and blood _brain barrier)			
		Blood (formed elements, functions of the blood, erythrocytes, erythropoiesis, hemoglobin, reactions of hemoglobin, white bloodcells,chemotaxis,platelets,plasmaproteins,blood coagulation, blood groups, immunity	Hematology		
		Structures offemalereproductivesystem,typesoffollicles,estrouscycle, menstrual cycle, ovarian cycle, uterine cycle, vaginal cycle, puberty, ovarian hormones, abnormalities of ovarian functions. Pregnancy, placental hormones, parturition and lactation	Female reproduction		
		Digestive system: salivary glands and saliva, structures of digestive system,gastricsecretion,regulationofgastric secretion, exocrineportionofthepancreas,liverandbiliarysystem,small intestine,intestinalsecretion,intestinalmotility,largeintestine,	Digestive system		
		Kidney:nephron structure and blood supply,plasmavolume,totalbloodvolume,glomerularfiltration,factorsaffectingtheGFR, tubular function, tubular secretion, water excretion, osmotic diuresis,diuretics, factors affecting sodium excretion,regulationofpotassiumexcretion,functionsofureterandurinarybladder	Renal system		
		structures, mechanics of pulmonary ventilation, partial pressure of gases in alveolar and blood, surfactant, surface tension, and collapse of the			

		alveoli, pulmonary volumes,,pulmonary capacities, alveolar ventilation, dead space and its effect on alveolar ventilation, functions of the respiratory.Passageways,mechanicsofrespiration, transportof gases in the blood and regulation of respiration Endocrine system:the relationship between nervous systemandendocrineglands,hormones,typesofhormones,mechanismsof hormone action, pituitary gland, thyroid gland,hormonal control of calcium metabolism, parathyroid glands, adrenal gland, pancreatic hormones,prostagandins, atrial natriuretic peptide, pineal gland and thymus gland Male and female reproductive system: structures, spermatogenesis, structure of mature spermatozoon, endocrine function of the testes and control of testicular function	Respiratory system Endocrinology Male reproductive system		
70. Course Evaluation					
Examination:1-					

Written mid-term

Written final –term

Practical final –term

Oral Examination

Course assessment weight for annual system (100%)

71. Learning and Teaching Resources

Using recent illustrating tools for teaching and scientific films . Perform oral examinations and scientific discu

Required textbooks (curricular books, if any)	Ganong
Main references (sources)	gyton
Recommended books and references (scientific journals, reports...)	breazil
Electronic References, Websites	Google scolar

Biochemistry

Course Description Form

72.	Course Name: biochemistry
73.	Course Code:biochemistry / BCH 2 402
74.	Semester / Year:2024
75.	Description Preparation Date:2024
76.	Available Attendance Forms:
77.	Number of Credit Hours (Total) /4 Number of Units (Total)150 hours ,theatrical 3,practical 1
78.	Course administrator's name (mention all, if more than one name)
	Name: dr. Luma walled Email:
79.	Course Objectives
Course ObjectivesThis course is designed so that the student of second year will achieve a general understanding about:-. **- normal functions of different systems in mammals and poultry** **Normal behavior of animals** **knowledge and understanding of the normal physiological basis of organ function and homeostasis** **The laboratory portion of this course will emphasize**	• ..... • ..... • .....

introductory exercises, experimental techniques, and data collection of physiological variables.	

80. Teaching and Learning Strategies

Strategy

A- Knowledge and Understanding

A1.The student will have a comprehensive knowledge and understanding on normal functions of cell organelles

A2.Functions of different body systems and interaction between them during different physiological conditions

A3. Knowledge about the interaction between body systems during different physiological conditions

A4. The interaction responses between different body systems during different non physiological conditions

A5Know the type and methods of completion .Laboratory tests for different body systems

A6 .How to read and analyze the laboratory tests results

81. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	4 weekly 150 hours	Cell biochemistry Enzyme :mechanism of action, kinetic, regulation Hormones: hormone action ,signal transduction CHO-biological oxidation, Mid. Term examination CHO metabolism, glycolysis ,Gluconeogenesis, Pentose phosphate pathway	Carbohydrate General qualitative tests Proteins glygogen Unknown of carbohydrates	Oral Examination Examination daily evaluation 3- Reports writing	Guize

		Glycogenesis, Glycogenolysis oxidative phosphorylationrespiration Lipid storage 2nd semestar Lipids : oxidation of fatty acid ,ketogenesis ,biosynthesis of fatty acids Cholesterol synthesis ,transport & excretion Regulation og gene expression Anabolism & catabolism of protein & amino acids Nucleotides & nucleic acid structure & function Metabolism of nucleotides RNA synthesis process ,modification Mid. Term examination DNA organization replication & repair. Protein synthesis & the genetic code. Proteinsynthesis and gene code exam	Determination of optimum Ph and temperature of α-amylase enzyme Urine sample analysis Normal and abnormal constituents of urine Unknown of urine 2nd semestar Photometric methods in biochemical analysis Determination of serum total protein Determination of serum amylase activity Determination of serum total calcium Determination of serum creatinine Determination of serum uric acid and urea Determination of serum		

			bilirubin Examination Separation of lipids from phospholipids Determination of serum cholesterol Enzymatic method for glucose Determination of serum total lipid		

82. Course Evaluation
Examination:1- Written mid-term Written final –term Practical final –term Oral Examination

Course assessment weight for annual system (100%)	
83. Learning and Teaching Resources Using recent illustrating tools for teaching and scientific films . Perform oral examinations and scientific discussion	
Required textbooks (curricular books, if any)	**Harper`s illustrated biochemistry; Murray et al** **Biochemistry – An Introduction Mckee and Mckee**
Main references (sources)	Laboratory devices &equipments Data show, Screen, new references in librar
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Google scolar

Course Description Form

General chemistry

84.	Course Name: General chemistry
85.	Course Code: General chemistry / CHM1401
86.	Semester / Year:2024
87.	Description Preparation Date:2024
88.Available Attendance Forms:	
89.Number of Credit Hours (Total) /4 Number of Units (Total)75,theatrical 3,practical 1	
90.	Course administrator's name (mention all, if more than one name)
Name: dr. Mohandabd- al latef Email:	
91.	Course Objectives
Course ObjectivesThis course is designed so that the student of second year will achieve a general understanding about:-. **- normal functions of different systems in mammals and poultry** **Normal behavior of animals** **knowledge and understanding of the normal**	• ..... • ..... • .....

physiological basis of organ function and homeostasis **The laboratory portion of this course will emphasize introductory exercises, experimental techniques, and data collection of physiological variables.**	

92. Teaching and Learning Strategies

Strategy	A- Knowledge and Understanding A1.The student will have a comprehensive knowledge an understanding on normal functions of cell organelles A2.Functions of different body systems and interaction betwee them during different physiological conditions A3. Knowledge about the interaction between body systems durin different physiological conditions A4. The interaction responses between different body system during different non physiological conditions A5Know the type and methods of completion .Laboratory tests fo different body systems A6 .How to read and analyze the laboratory tests results

93. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	4 weekly	Atom and electronic structure Types of chemical bonds Acid – Base theory Formula masses Organic chemistry Alkenes and alkynes	Qualitative analysis of cations Types of chemical bonds Analysis of a mixture of groups (1) ions Acid –	Oral Examination Examination daily evaluation	Guize

		Aromatic compounds Mid. Term examination Buffer Organichalides, Alcohols and phenols Aldehydes and ketones Carboxylic acids Anhydrides, esters, and amides of carboxylic acids Introduction of biochemistry	Base theory Titration of strong acid with strong base Formula masses Analysis of amixture of NaOHand Na2CO3 Organic chemistry Standardization of HCl solution with standard solution of Na2CO3 Alkenes and alkynes Aromatic compounds Mid. Term examination Determination of Fe in FeSO4 Solution Buffer Determination of normality of KMnO4 solution Organichalides, Alcohols and phenols Precipitation , titration : Determenation of chloride by mohr method	3- Reports writing	

			Aldehydes and ketones Determination of the strengthvolume of H_2O_2 solution Carboxylic acids Standardization of NaS_2O_3 solution Anhydrides, esters, and amides of carboxylic acids			
94. Course Evaluation						
Examination:1- Written mid-term Written final –term Practical final –term Oral Examination						

Course assessment weight for annual system (100%)		
95. Learning and Teaching Resources Using recent illustrating tools for teaching and scientific films . Perform oral examinations and scientific discussion		
Required textbooks (curricular books, if any)	Organic chemistry for students of biology and medicine , G . A. Taylor General chemistry , Ebbing	
Main references (sources)		
Recommended books and references (scientific journals, reports...)	Chemistry of organic compounds , noller 3rd . Edition An introduction to chemical analysis walter E. Harris , Byron Kratochvil , 1982	
Electronic Reference	Google scolar	

Websites		

pharmacology

Course Description Form

96.	Course Name:pharmacology
97.	Course Code:Pharmacology/ PHR3402
98.	Semester / Year:2024
99.	Description Preparation Date:2024
100.	Available Attendance Forms:
101.	Number of Credit Hours (Total) /4 Number of Units (Total) 150 hours theatrical 3, practical 1
102.	Course administrator's name (mention all, if more than one name)
	Name: dr. Auorobamohammed Email:
103.	Course Objectives

Course ObjectivesThis course is designed so that the student of second year will achieve a general understanding about:-.	•	**.....** **.....** **.....**
- normal functions of different systems in mammals and poultry **Normal behavior of animals** **knowledge and understanding of the normal physiological basis of organ function and homeostasis** **The laboratory portion of this course will emphasize**		

introductory exercises, experimental techniques, and data collection of physiological variables.

104. Teaching and Learning Strategies

Strategy

A- Knowledge and Understanding

A1.The student will have a comprehensive knowledge understanding on normal functions of cell organelles

A2.Functions of different body systems and interaction between t during different physiological conditions

A3. Knowledge about the interaction between body systems du different physiological conditions

A4. The interaction responses between different body systems du different non physiological conditions

A5Know the type and methods of completion .Laboratory tests different body systems

A6 .How to read and analyze the laboratory tests results

105. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	4 weekly	First semester Drug acting on cardiovascular system and blood Chemotherapy of microbial diseases Chemotherapy of parasitic disease Autacoids and anti-inflammatory drugs Endocrine pharmacology and hormones	Principles of pharmacology Pharmacokinetics - Drug-Receptor Interaction and Pharmacodynamics Drugs acting on autonomic and somatic nervous system Drugs acting on	Oral Examination Examination daily evaluation 3- Reports writing	Guize

		Dermatopharmacology Total Second semester Metrology Nature and sources of drugs Pharmaceutical preparations and drug forms Routes of drug administration Variations in drug response (Species and individual) Microsomal enzymes activity induction and drug response Excretion of drugs Prescrition writing Dispensing Action of drugs on the eyes Action of drugs on isolated guinea pigs ileum Drugs and effects on the rabbit intestine Drugs and effects on rabbit uterus Neuromuscular blocking (on the frog) Calculation of drug dosage Xylazine-ketamine anesthesia in rabbits Dose response relationships (ED50, LD50, TI) Anticonvulsants Determination of blood cholinesterase activity Organophosphate poisoning	central nervous system Drug affecting gastrointestinal function Drug affecting the respiratory system Drug affecting renal function and fluid-electrolyte therapy		

		in rats or mice Xylazine effects in sheep Diuretics Aspirin toxicity (comparison with acetaminophen) Veterinary pharmaceutical preparations Neurobehavioral effects of drugs and toxicants Effects of drugs on the perfused heart			

106. Course Evaluation

Examination:1-

Written mid-term

Written final –term

Practical final –term

Oral Examination

Course assessment weight for annual system (100%)

107. Learning and Teaching Resources

Using recent illustrating tools for teaching and scientific films . Perform oral examinations and scientific discussion	
Required textbooks (curricular books, if any)	Lippincotts pharmacology Howland R.D and ycekM.J
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Google scolar

Course Description Form

108.	Course Name:Toxicology
109.	Course Code:Toxicology/ TOX 3201
110.	Semester / Year:2024
111.	Description Preparation Date:2024
112.	Available Attendance Forms:
113.	Number of Credit Hours (Total) /4 Number of Units (Total) 30 hours theatrical 2
114.	Course administrator's name (mention all, if more than one name)
Name:	
Email:	
115.	Course Objectives
Course ObjectivesThis course is designed so that the student of second year will achieve a general understanding about:-.	
- normal functions of different systems in mammals and poultry	
Normal behavior of animals	
knowledge and understanding of the normal physiological basis of organ function and homeostasis	
The laboratory portion of this course will emphasize introductory exercises, experimental techniques, and data collection of	

physiological variables.	

116. Teaching and Learning Strategies

Strategy

A- Knowledge and Understanding

A1.The student will have a comprehensive knowledge and understan normal functions of cell organelles

A2.Functions of different body systems and interaction betwee during different physiological conditions

A3. Knowledge about the interaction between body systems during d physiological conditions

A4. The interaction responses between different body systems different non physiological conditions

A5Know the type and methods of completion .Laboratory tests for d body systems

A6 .How to read and analyze the laboratory tests results

117. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
15	4 weekly 30Hours	Concepts and terminology Toxicokinetics Antidotes and general treatment of poisoning Diagnostic aspects of toxicology Insecticides Herbicides Metals and minerals		Oral Examination Examination daily evaluation 3- Reports	Guize

		Mycotoxins Feed_associated toxicants House-hold and industrial products Plants Biotoxins Environmental pollution with toxicants Pharmaceuticals cholinesterase activity Organophosphate poisoning in rats or mice Xylazine effects in sheep Diuretics Aspirin toxicity (comparison with acetaminophen) Veterinary pharmaceutical preparations Neurobehavioral effects of drugs and toxicants Effects of drugs on the perfused heart		writing	

118. Course Evaluation

Examination:1-

Written mid-term

Written final –term

Practical final –term

Oral Examination

Course assessment weight for annual system (100%)

119. Learning and Teaching Resources

Using recent illustrating tools for teaching and scientific films . Perform oral examinations and scientific discussion

Required textbooks (curricular books, if any)	Lippincotts pharmacology Howland R.D an ycekM.J
Main references (sources)	
Recommended books and references (scientific journals, reports...)	
Electronic References, Websites	Google scolar

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the co
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sp

1. Teaching Institution	
2. University Department/Centre	College of Veterinary medicine
3. Course title/code	Internal veterinary medicine
4. Programme(s) to which itcontributes	Bachelor in general veterinary medicine and surgery
5. Modes of Attendance offered	
6. Semester/Year	Two semester/ year
7. Number of hours tuition (total)	course of 26 credits ,theory :12 hours ,practical 28 hours / week. in a total of 15 weeks/ semester= 600 hours/year
8. Date of production/revision of this specification	2022-2023
9. Aims of the Course	
Preparethe studentforthe basicinformationof Internal and preventive Medicine	

Knowthe studentoninfectious diseases
Knowthe studenton internal medicine diseases
Knowthe studentonepidimiology of diseases
Preparethe studentforthe basicinformationof infectious diseases

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Knowledge and Understanding

A1.Topicsorareasof knowledgethatstudents shouldknowand understandabout the subjects

The student will have a comprehensive knowledge and understanding on animal diseases(cattle, horses, sheep, goats).

A2: Knowledge about the diag

Nosis and treatment of diseases.

B. Subject-specific skills

B1.Explainstrategiesand skillsusedin order towritethe studentsthread

B2: Creative thinking to improve treatment of animal diseases in animals.

Teaching and Learning Methods

Lectures of every topic in the course.

Collection of some information from textbooks.

Lectures, tutorialsandassignmentsused

Assessment methods

Examinations

Examination

Written mid-term

Written final –term

C. Thinking Skills

Sugest a scientific problem and trying to resolve it

Teaching and Learning Methods

Engaging students in discussion during lesson

Testing process and report writing

Provide an opportunity to work through the practical lesson

Assessment methods
Duties in report writing

11. Course Structure

Skills thatshould be developedwiththe studentin the field ofrelationshipsthat benefitothers

Self-reliance

Responsibility towards society

Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method
1	1		Introduction		
2	1		Rinder pest		
3	1		PPR		
4	2		FMD		
5	1		VESICULAR STOMATITIS		
6	2		BLUE TONGUE		
7	2		MD& BVD		
8	2		MCF		
9	2		VIRAL DIARHEA /SMAL RUMINANT AND FOALS		
10	1		H,S		

11	1		BLACK LEG		
12	1		BLACK DISEASE		
13	1		TETANUS		
14	2		ENTEROTOXEMIA		
15	1		BOTULISM		
16	1		BACILLARU HB UREA		
17	1		BRAXY		
18	2		T.B & JOHNS DISEASE		
19	2		ACTINOMYCOSIS &ACTINOBACILLOSIS		
20	1		ORAL AND LARYNGEAL NECROBACILLOSIS		
21	1		WINTER DYSENTARY OF CATTLE		
22	2		DISEASE OF MOREXELLA &HEMOPHYLUS		
23	1		EIA		
24	1		A.H.S		
25	1		EQUINE RHINO PNEMONITIS		
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method
1	1		EQUINE VIRAL ARTHRITIS		

2	2		EQUINE INFLUENZA		
3	3		VIRAL ENCEPHALOMYLITIS IN HORSE		
4	4		ANAPLASMOSIS		
5	5		THEILERIOSIS		
6	6		BABESIOSI		
7	7		MASTITIS		
8	8		BRUCELLOSIS		
9	9		LEPTOSPIROSIS		
10	10		LISTERIOSIS		
11	11		ANTHRAX		
12	12		COLIBACILLOSIS		
13	13		SALMONELLOSIS		
14	14		FOOT ROT		
15	15		CCPP&CBPP		
16	16		TOXOPLASMOSI		
17	17		ORF		
18	18		PAPLOMATOSIS		
19	19		LUMPY SKIN DISEASE		
20	20		BOVINE ULCERATIVE MAMMALITIS		
21	21		BOVINE EPHEMERAL DISEASE		
22	22		RFT VALLEY FEVER		
23	23		AKABANI VIRAL DISEASE		

24	24		BOVINE VIRAL LEUKOSIS		
25	25		RABIES		
26	26		PSEUDO RABIES		
27	27		LOUPING ILL		
28	28		SCRAPIES		
29	29		ENZOATIC ABORTION IN SHEEP		
30	30		GLANDER		
31	31		STRANGLES		
32	32		EPIZOATIC LYMPHANGITIS		
33	33		CONTAGIOUS BOVINE PYELONEPHRITIS		
34	34		CASEOUS LYMPH ADENITIS OF SHEEP		
35	35		ULCERATIVE LYMPHANGITIS		
36	36		DISEASE CAUSED BY PARASITE		
37	37		MANGE AND PARASITE		
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method
1	3		Introduction		
2	3		MILK FEVER		
3	3		DOWNER COW SYNDROM		

4,	3		HYPOMAGNESEMIA		
5,6	3		PREGNANCY TOXEMIA		
7	3		KETOSIS		
9.10	3		POST PARTURENT HB UREA		
12	3		AZOTUREA		
13	10		CARDIOVASCULAR SYSTEM		
14	3		VIT. D DEFICIENCY		
15	3		CA.DEFICIENCY		
16	3		P DEFICIENCY		
17	2		OSTEOMALASIA		
18	2		VIT A DEFICIENCY		
19	2		VIT. E DEFIVIENCY		
20	2		VIT.K DEFIVIENCY		
21	2		CUPPER DEFICIENCY		
22	2		IODINE DEFICIENCY		
23	2		MN DEFICIENCY		
24	2		ZN DEFICIENCY		
25	2		CO DEFICIENCY		
26	2		VIT C DEFICIENCY,THIAMIN E,RIBOFLAVIN DEFICIENCY		
Week	Hours	ILOs	Unit/Module or TopicTitle	Teaching Method	Assessment Method

1	3		Laboratory apparatus		
2	3		Samples collection		
3	3		PCV&Hb measurement		
4	3		WBCs count		
5	3		RBCs count		
6	3		Blood smear staining		
7	3		Differential WBCs count		
8	3		Bacteriological culture		
9	3		Bacteriological smear staining		
10	3		Clinical chemistry		
11	3		Blood parasites		
12	3		Revision		
13	3		Examination		
14	3		Fecal examination		
15	3		Identification & count of egg parasites		
16	3		Milk test		
17	3		Urine test		
18	3		Skin scraping and external parasites identification		

12. Infrastructure

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for example workshops, periodicals,IT software, websites)

Community-based facilities (include for example, guest lectures, internships, field studies)

13. Admissions

Pre-requisites	
Minimum number of students	
Maximum number of students	

TEMPLATE FOR TYPICAL SITE VISIT CHEDULE

1. The typical site visit schedule is designed for two or three days. It includes pre-arranged meetings. Correspondingly the arranging these meetings and fitting the template to the circumstances restswith 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 scheduleshould not completely fill all times with meetings, but leave space for additional activities bypeer reviewers including preparing for meetings, updating notes and records and draftingparagraphs for the draft Programme Review report

Table (1)

Session	Time	Activity
Day1		
1	09:00	Welcome and introductions; brief introduction to the review (purposes,intended outcomes, use of evidence and self-evaluation report) – ProgrammeTeam
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 includingsample of students' assessed work
6	15:00	Efficiency: meeting with faculty members
		Review panel meeting: review of the evidence and any gaps or

7	16:00	matters tofollow-up
8	17:00	Meeting with external stakeholders (sample of graduates, employers, otherpartners)
Day2		
9	08:45	Review meeting with review chairperson, review coordinator, programmeleader: summary of day 1 findings, addressing any gaps, adjust the schedulefor day 2 if required
10	09:00	Academic standards: meeting with faculty members
11	10:30	Effectiveness of quality management and assurance: meeting with facultymembers
12	12:00	Review panel meeting: review of evidence and any matters still to beaddressed
13	14:00	Flexible time to pursue any matters arising
14	14:30	Review panel final meeting: decisions on outcomes and drafting oralfeedback
15	16:30	Oral feedback by review chairperson to review coordinator and facultymembers
	17:00	Close

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:

Faculty:

Programme:

Follow-up Report

1. This report presents the findings of the follow-up visit, which took place on / /20__. Thisis part of the Universities Quality Assurance and University Performance departmentsarrangements to provide continuing support for the development ofinternal quality assurance processes and continuing improvement

2. The purposes of the follow-up review are to assess the progress made in the programmesince the Programme Review report, and to provide further information and support forthe 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 sitevisitincludes: (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 asyetare 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 reviewersPosition/titleSigned

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 thecriteria in the Framework for Evaluationare 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 tothe expectedachievementof 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 tothe programme that would demonstratethe 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			

CRITERIA FOR A SUCCESSFUL REVIEW ANDEVALUATION OF THE PROCESS

CRITERIA FOR A SUCCESSFUL REVIEW

1. The criteria for a successful review that informs the arrangements for Programme Reviewandits evaluation are as follows:

   i. The programme being reviewed is supported by existing or developing internal systemsincluding specifications and review with a culture of self-evaluation and continuingimprovement. These features of internal review provide a sound basis for the externalreview.
   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 theacademic 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 andthe reviewers and provides appropriate support for the external review as required
      b. The review coordinator: ensures that the evidence base generated by internal reviewand reporting systems is available on time to the visiting peer reviewers, and anyrequirements for clarification and supplementary information are satisfied
      c. The institution: provides a self-evaluation report for the programme to be externallyreviewed
      d. The peer reviewers: undertake their preparation for the visit including reading theadvance documentation and preparing initial commentaries that inform the conductof the visit
   v. There is consistency in the application of the published review method and the protocolsby all participants in a way that respects and supports the mission and philosophy of theoverall process for continuing review and continuing improvement.
   vi. Reviewers and representatives of the institution conduct an open dialogue throughout thereview that shows mutual respect.
   vii. The judgements reached by the reviewers are clear, based on the evidence available andsystematically recorded.
   viii. The review report is produced on time in line with the standard report structure and

isconfirmed by the institution to be factually accurate.

ix. The set of conclusions arising from the review are constructive, offering a fair and balancedview of the programme.

x. The institution is able to benefit from the external review by giving due reflection andconsideration to the findings and preparing where appropriate a realisticimprovementplan

EVALUATION

2. The Quality Assurance and Academic Accreditation Directoratewishes to establish and implement procedures forthe systematic evaluation of all external Programme Reviews arranged by it. The institution, thereview chairperson and the peer reviewers will all routinely be asked to evaluate each externalreview by completing a short questionnaire. The structured comments will be analysed by theQuality Assurance and Academic Accreditation Directorateand where necessary the Quality Assurance and Academic Accreditation Directoratewill take action to follow-up any difficultieshighlighted. In addition, the Quality Assurance and Academic Accreditation Directoratewill collate the structured comments to compile regularsummary reports indicating the main features of the review process in practice, including theoverall levels of satisfaction expressed by the participants, together with examples of goodpractice and opportunities for continuing improvement.

GLOSSARY OF TERMS IN PROGRAMME RE-VIEW

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 reportingmay have different meanings according to the context in which they are used. To remove possibleambiguities, the following working definitions of the terms are offered.

ADEMIC FIELDS/SUBJECT AREAS/DISCIPLINES

Academic fields categoriserecognisable and coherent domains or the scope of study such asMathematics, Medicine, Engineering and Philosophy. Fields that have a wide scope are oftensubdivided; for example, Humanities include subjects like History and Literature and Arts mayinclude separate disciplines of Fine Arts and Photography. The curriculum of someprogrammes may combine academic fields, or may include different subjects and disciplines suchas Mathematics in Engineering or Accountancy in Business Administration.

ACADEMIC STANDARDS

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

ACCREDITATION

The recognition accorded by an agency or other organisation to either an education programmeor to an institution to confirm that it can demonstrate that the programme(s) meet acceptablestandards and that the institution has effective systems to ensure the quality and continuingimprovement 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 annuallyat each level of courses, programmes and the institution.

ADMITTED STUDENTS

Students registered on a programme, including those accepted holding prior credits for admissionafter year 1.

BENCHMARK/REFERENCE POINTS

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

COMMUNITY

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

COURSE AIMS

Overall course aims should be expressed as the outcomes to be achieved by students completingthe course as significant and assessable qualities. They should contribute to the achievement ofdefined 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 admittedstudent, determined by the intended learning outcomes (ILOs) and comprising the content,the arrangements for teaching and learning and assessments of students' achievementstogether with the access to the range of facilities available within the University and, byarrangement, outside it, including libraries, computers studies, social, sports, internshipsand field studies.

DIRECTED SELF-LEARNING/INDEPENDENT LEARNING

The active promotion of personal skills included in the curriculum that support the student andgraduate 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 directedself-learning beyond formal teaching lectures include logbooks, self-assessment reports, interactivelearning tools or the equivalent.

E-LEARNING

Electronic-based learning using information technology may be the primary or secondaryelement in material associated with a programme or a course. It may be stand-alone orintegrated 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. Itgenerally increases the levels of autonomy in, and responsibility for, learning. Convertingexisting texts or lecture notes to a website or pre-recorded media alone is generally notconsidered to be e-learning.

EXTERNAL EVALUATOR/EVALUATION

An appointment to a specific programme, part of a programme or course(s) by the institution toestablish an independent and external professional opinion on the academic standards set andachieved 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 willform the basis for self-evaluation, the site visit by external peer reviewers and the ProgrammeReview report. It is designed to operate in all academic fields and institutions, and to apply tointernal and external reviews.

GENERAL PRECEPTS/BY-LAWS

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

HIGHER EDUCATION INSTITUTE (HEI)/INSTITUTION

A Faculty, College or University providing higher education programmes leading to a first universitydegree (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 ofmeasurement (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

contributingelements meet specified needs and are continually reviewed and improved. An outcomes-relatedsystem 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 reviewand development of processes for establishing effective policies, strategies and priorities to supportcontinuing improvement.

JOB/LABOUR MARKET

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

MISSION STATEMENT

A brief statement clearly identifying the educational institution's duty and its role in the developmentof the community; a mission statement may also offer brief supporting statementson 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 expertiseto those delivering the provision, but not from the same institution and without any conflict ofinterest, who can contribute to the review of an education programme for internal and externalquality assurance or for accreditation purposes.

PROGRAMME

For the purpose of Programme Review an education programme is defined as one which admitsstudents 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 thatthe 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 includedin 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 qualityof learning programmes
2) To support the development of internal quality assurance processes with informationon emerging good practice and challenges, evaluative comment and continuingimprovement
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 standardsare defined and achieved in line with equivalent national and international standards, that thequality of the curriculum and related infrastructure are appropriate and fulfil the expectations ofthe range of stakeholders, that its graduates represent the range of attributes specified and that theorganisation is capable of sustained, continuing improvement.

REVIEW COORDINATOR

The nominee of an institution to coordinate a Programme Review to assist in the gathering andinterpretation 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 educationprogramme.

SELF-EVALUATION

n institution's process of evaluating a programme as part of Programme Review and within aninternal system of quality management and assurance.

SITE VISIT

A scheduled visit by external peer reviewers as part of Programme Review. Normally the site visitwill 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 anycourses, specific facilities or resources that contribute to it. The specification provides informationto design, manage, deliver and review the programme.

STAKEHOLDER

Those organisations, groups or individuals which have a legitimate interest in the educationalactivities of the institution both in respect of the quality and standards of the education and alsoin respect of the effectiveness of the systems and processes for assuring the quality. An effectivestrategic review process will include the key stakeholder groups. The precise range of stakeholdergroups and their differentiated interests depend upon the mission of the institution, its range ofeducational activities and local circumstances. The range is usually defined by a scoping study.Examples of groups with a legitimate interest include current students, graduates, intendingstudents and their parents or family, staff in the institution, the employing community, the relevantGovernment 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 arealistic plan based on evidence-based evaluations. Objectives concentrate on the means by whichan 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 witharrangements for monitoring the progress and evaluating impact.

STUDENTS'ASSESSMENT

A set of processes, including examinations and other activities conducted by the institution tomeasure 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 studentwith a view to constructing an appropriate curriculum. Formative assessment provides informationon the student's performance and progress to support further learning, without necessarily countinga grade towards graduation. Summative assessment determines the final level of attainment of thestudent 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 standardizedstructure together with the analysis and outcomes. Surveys using questionnaires are the mostfrequently 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 suchas writing a review paper for the students to gain the skills of self-learning and presentation; fieldtrips; practical sessions for the students to gain practical skills; and carrying out experiments to trainthe students to analyse the results, reach specific conclusions and prepare a report, presentation or poster.