

# TEMPLATE FOR COURSE SPECIFICATION

## HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

### COURSE SPECIFICATION

This course description provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the student to achieve, demonstrating whether he has made maximum use of the available learning opportunities. It must be linked to the description of the program.

١. Teaching Institution	Kirkuk University/ College of Veterinary Medicine
٢. University Department/Centre	Pathology and poultry disease branch
٣. Course title/code	/ CVM٣١٠٥/CVM٣٢٠٥/pathology
٤. Modes of Attendance offered	Third year students
٥. Semester/Year	first and second semesters (٢٠٢٠-٢٠٢١)
٦. Number of hours tuition (total)	First semester (٩٠)hours / Second semester(٩٠)hours
٧. Date of production/revision of this specification	١/٩/٢٠٢٠

#### ٨. Aims of the Course

Providing students with the basic concepts and experience necessary to prepare them as veterinarians and teaching veterinary students the veterinary pathology

١. The study of, the disease seek the important disease in body organs of animal

٢. which is one of the basics of veterinary pathology, as it aims to study the all systemic disease.

٣. study of Methods of processing and preparation of tissue for microscopically examination.

## 9. Learning Outcomes, Teaching ,Learning and Assessment Methode

A- Cognitive goals . A<sup>1</sup>- Teaching the student the concept internal medicine disease principles.

A<sup>2</sup>- Knowledge, understanding and comprehension of the scientific subject curriculum

A<sup>3</sup>- To classify the theoretical for the development of learning and teaching in the appropriate manner with the veterinary pathology

A<sup>4</sup>- Identifying the histopathy changes of the diseases in the animal's body.

A<sup>5</sup> - Identify immunopathy.

B. The skills goals special to the course.

B<sup>1</sup> - Teaching the student how to understand of Veterinary pathology

B<sup>2</sup>- Teaching the student pathological changes in organs system of animals.

B<sup>3</sup> - Teaching the student the methods of histo pathy technique preparation .

B<sup>4</sup> - Teaching the student the techniques of optical absorbance measurement devices for the purpose of diagnosis of diseases.

### Teaching and Learning Methods

<sup>1</sup>- Methods of diction: a teacher who listens to the learners while they sit in front of him, and they listen to him, and he must have the ability to indoctrinate and absorb information.

<sup>2</sup>- Conversational methods: the teacher must possess a high scientific ability and the attendees have information on the topic of the discussion and dialogue.

<sup>3</sup>- The discovery method: the teacher observes the activities of the learners conducting the experiments individually or collectively.

<sup>4</sup>- Active methods: the learner performs individual or group activities and the teacher takes the learner's hand towards learning in practical life inside and outside the walls of the educational institution and to come into contact with the vocabulary of practical life, which gives meaning to real learning.

<sup>5</sup>- Giving lectures using modern methods of presentation of power point topics and scientific films.

### Assessment methods

- γ. Semester and final theory exams by 90%
- ϒ. Evaluation of extra-curricular activities (reports, posters and homework) by 10%
- ξ. Learning triangle
- ο. Daily exams

10. Course Structure/first semester

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	6		Degenerative changes and Necrosis / Acute Cellular Degeneration/ Gout Degeneration and Gangrenous necrosis (Gangrene types).	Theoretical (3 hours) 3 hours practical	
2	6		Disturbance of Pigmentation ( Jaundice/ Types and causes and formation of hemosidren, melanin, and calcification/ types and causes)	Theoretical (3 hours))+ 3 hours practical	
3	6		Disturbance of growth ( atrophy, hyperatrophy, hyperplasia, hyoplasia, metapsia, aplasia, congenial anomlies)	Theoretical (3 hours) 3 hours practical	
4	6		Disturbance of Circulation (Congestion and hemorrhage/ types and causes, thrombus and emboli: types and causes, infarction, embolism, edema / types and causes)	Theoretical (3 hours)	
5	6		Inflammation (definition, causes, types of inflammatory cells, types of inflammation)	Theoretical (3 hours) 3 hours practical	
6	6		Healing and repair	Theoretical (3 hours)) 3 hours practical	
7	6		Inmmunopathology	Theoretical (3 hours) 3 hours practical	
8	6	<b>Mid-term exam.</b>	Tumors (definition/ theories of origin, classification/ differentiation between benign and malignant tumors/ histological characters of tumors/ method of transmission)	Theoretical (3 hours) 3 hours practical	Theoretical (33) and + practical (33)
9	6		Diseases of respiratory system/ Upper respiratory tract/ Lung/ Pleura	Theoretical (3 hours)	

၁၀	၆		Diseases of Cardiovascular system (Epicardium, Myocardium, Pericardium, Diseases of blood and lymph vessels)	Theoretical (၃ hours) +၃ hours practical	
၁၁	၆		Diseases of haemopoetic and lymphatic tissues ( Lymphatic nodes, spleen, thymus)	Theoretical (၃ hours)+ ၃ hours practical	
၁၂	၆	\	Diseases of digestive system (diseases of mouth, cum, tongue, pharynx and esophagus/ diseases of Rumen and stomach/ Diseases of intestine/ disease of liver and pancreas)	Theoretical (၃ hours) ၃ hours practical +	
၁၃	၆		Disease of urinary system ( Diseases of kidney, Urethras, Urinary bladder)	Theoretical (၃ hours) +၃ hours practical	
၁၄	၃	.	Disease of Male genital system (testis, epididmyus, Urethra, Penis, Prostate) Disease of female genital system (Ovary, Oviduct, Uterus and Cervix, Vagina and valve)	Theoretical (၃ hours)) +၃ hours practical	
၁၀	၆		Final exam		Theoretical (၄၀) and + practical (၃၀)

### ၁၀. Course Structure (second semester)

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
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1	6		Diseases of Nervous system (Manning, Brain, Spinal cord)	Theoretical (3 hours)))+3 hours practical	
2	6		Disease of Endocrine	Theoretical (3 hours)))+3 hours practical	
3	6		Diseases of skin and accessory	Theoretical (3 hours)))+3 hours practical	
4	6		Diseases of eye and special organ	Theoretical (3 hours	
5	6		Solutions and fluids used in fixation and preservation of tissue samples used as preservative samples	Theoretical (3 hours) +3 hours practical	
6	6		Methods of processing and preparation of tissue for microscopically examination	Theoretical (3 hours)) +3 hours practical	
7	6		Methods of embedding and preparation of tissue blocks.	Theoretical (3 hours) +3 hours practical	
8		<b>Mid-term exam.</b>	Methods of cryostat for frozen sections.	Theoretical (2 hours)))+3 hours practical	Theoretical (22) and + practical (13)
9	6		Methods of reaction and special tissue stains	Theoretical (3 hours)))+3 hours practical	
10	6		Frozen section microtome for pathological detection of fat and enzymes.	Theoretical (3 hours) +3 hours practical	
11	6		Practical training in examination and diagnosis of many pathological conditions as histological section, lintin slides, digital photos and fixed samples (gallery samples)	Theoretical (3 hours)))+3 hours practical	
12			Histopathological practice for examining of upper respiratory Tract	Theoretical (3 hours)	
13	6		Histological section and fixed gross samples of endocarditis and myocarditis and pericarditis caused by bacteria and parasites.	Theoretical (3 hours)))+3 hours practical	
14	6		Pathological affections of aorta and other blood vessels (gross and histopathological section)	Theoretical (3 hours) +3 hours practical	
15	3		Pathological affection of digestive system including gingivitis and other mucosal epithelial	Theoretical (3 hours)))+3 hours practical	

			affection (foot and mouth diseases, and wooden tongue).		
		<b>Final exam</b>		Theoretical ٣ hours+practical٣	Theoretical (٤٠) and + practical (٢٠)

١١. Infrastructure	
١. Books Required reading:	لا يوجد
٢. Main references (sources)	James .F. Zachary,(٢٠١٧) Pathology Basic of Veterinary Disease, (٦ )edition
A- Recommended books and references (scientific journals, reports...).	Introduction to Veterinary Pathology Norman F. Cheville٢٠٠٦
B-Electronic references, Internet sites...	<a href="http://www.google.com.iq/#tbm=bks&amp;q=veterinary+pathology">http://www.google.com.iq/#tbm=bks&amp;q=veterinary+pathology</a> Wikipedia
١٢. The development of the curriculum plan	
١. Searching for modern teaching and learning methods and means away from the old traditional recitation method.	
٢. Relying on modern educational means to study pathological change.	
٣. The use of modern devices, machines and technologies, especially electronic ones, to deliver information so that the student uses all his auditory, visual and sensory senses in comprehending and storing the information in his mind.	