

Course Description Form

1. Course Name:	
Histology	
2. Course Code:	
CVM2102	
3. Semester / Year:	
1 st semester/ 2 nd year students	
4. Description Preparation Date:	
20-02-2024	
5. Available Attendance Forms:	
6. Number of Credit Hours (Total) / Number of Units (Total)	
75hours/3.5 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Assist.Prof. Thikra A.Mustafa Email: tamustafa3@uokirkuk.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Make student able to know types of tissues (epithelial , connective, muscular and nervous tissues) • Make student able to know microscopic anatomy of different tissues • Make student able to know microscopic anatomy of different tissues • Make student able to know function of each type of tissue <p>Make student able to recognize microscopic structure of each tissue</p> <ul style="list-style-type: none"> • Make student able to know function of each type of tissue and organ
9. Teaching and Learning Strategies	
Strategy	Lectures ppt, videos, discussion. quizzes, homework Make reports

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	5		INTRODUCTION:	Definition ,microscopic measurements, calculation of magnification, basic histological techniques.	Theoretical and practical exams Quizzes Non-classes activities
2	5		CYTOLOGY	Definition ,microscopic measurements, calculation of magnification, basic histological techniques.	
3	5			granular and smooth endoplasmic reticulum, ribosomes, Golgi apparatus, lysosomes, centrosomes,	
4	5		Cell division	Mitosis and meiosis	
5	5		TYPES OF TISSUES EPITHELIAL TISSUE	Classification of epithelial tissues according to their shape and No. of cellular layers. Lining and covering epith. , special characteristics of epithelia epitheliod tissue.	
6	5			Epithelial surface features . Apical surface features. Cell Junctions. glands , classification of glands, exocrine and endocrine glands, mode of secretions(apocrine, merocrine and holocrine)	
7	5		CONNECTIVE TISSUE	Definition,Classification , proper C.T. , supportive (bone and cartilage) and fluid C.T.(blood and lymph).	
8	5			Blood , plasma, blood cells , erythrocytes and leukocytes and platelets.	
9	5			Mid-term exam.	
10	5			Bone and cartilage and their classification, spongy and compact bones, havercian system. fibrous , elastic and hyaline cartilages.	
11	5		MUSCULAR TISSUE	Classification of muscles, skeletal, smooth and cardiac muscles and their histological features.	
12	5		NERVOUS TISSUE:	classification, organoids of neurons, axons and dendrites,	
13	5			2 nd mid term exam	
14	5		NERVOUS TISSUE:	supporting cells in CNS and PNS, synapses, nerve fibers,	

				cerebrospinal and autonomic ganglia.	
15	5			General review of articles	
16	5			Final-term exam.	
17	5		DIGESTIVE SYSTEM:	Oral cavity, lip, tongue, lingual papillae, esophagus,	
18	5			stomach, nonglandular stomach in ruminants: rumen, reticulum, omasum, abomasums, glandular stomach, cardiac portion, fundic portion, pyloric portion,	
19	5			small intestine: duodenum, jejunum, ileum, large intestine, colon, recto anal junction,	
20	5			accessory glands, liver, pancreas. Salivary gland	
21	5		RESPIRATORY SYSTEM:	Nasal cavity, vestibular region, respiratory Epi, olfactory EPI, larynx, trachea, lung, bronchi, bronchioles, alveolar ducts, alveoli, interalveolar septum,	
22	5		URINARY SYSTEM:	Unipyramidal kidney, multipyramidal kidney, general microscopic structure, nephron, portions and function, juxtaglomerular complex, portions and function	
23	5			ureter, urinary bladder, urethra	
24	5			Mid-term exam	
25	5		SKIN	Epidermis and dermis layer and their sublayers constitution. glands, blood and nerve constitution.	
26	5		MALE REPRODUCTIVE SYSTEM:	Histological structure of testis, seminiferous tubules,	
27	5			epididymis, ductus deferens, prostate gland, vesicular gland,	

28	5		FEMALE REPRODUCTIVE SYSTEM:	Histological structure of ovary, ovarian follicle development, ovulation, corpus luteum and function oviduct portions, histological structure of uterus, cyclic changes in the endometrium, cervix, vagina, mammary gland and functional conditions.	
29	5		ENDOCRINE SYSTEM:	Pituitary gland, embryonic origin, adenohypophysis and endocrine cell types, neurohypophysis, hypothalamic portion, thyroid gland, structure and function, adrenal gland, structure and function, parathyroid gland, structure and function, endocrine cells in other organs.	
30	5		CARDIOVASCULAR SYSTEM:	Blood vessels, types of arteries, types of veins, venules, types of capillaries, sinusoids, arteriovenous anastomosis, wall of the heart.	
31				Final-term exam.	

11. Course Evaluation

Mid term(40 : 23 for theoretical and 17 practical and quizzes and reports (60 marks final)

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)

Main references (sources)

1. Color Atlas of Veterinary Histology, 1999 2nd Edition
William J. BACHA, Linda M.Bacha
2. Basic Histology. A text and Atlas
Luis Carlos Junqueira ; Jose Carneiro
3. Histology A text and Atlas .
Michael H. Ross
4. text book of Veterinary histology (Dellmanns)

Recommended books and references (scientific journals, reports...)

Electronic References, Websites

Virtual histology

