

Specification for Histology (C)

2025/2026

1-Basic information

Course title	Histology (C)							
Course code	HIS.216							
Department/s participating in delivery of the course	Histology							
Number of units/credit hours	Theoretical	1	Practical	1(2)	Other	0	Total	2(3)
Course Type	√ Obligatory				Elective			
Academic level at which the course is taught	2 nd year							
Semester	Fall semester							
Academic program	Bachelor of Veterinary Medicine (BVM)							
Faculty	Veterinary medicine							
University	Benha University							
Name of course coordinator	Prof. Dr. Ihab Mahmoud Abd El-Aal EL-Zoghby							
Course Specification Approval Date	Faculty council 27-8-2025							
Course Specification Approval (Attach the decision/minutes of the department /committee/council)	Department council on 8/7/2025							

2-Course overview

- Course contents written in the program bylaw:

Special histology of system, digestive, respiratory, skin, endocrine, urogenital system, sense organs.

3- Course Learning Outcomes CLOs

	(NARS) outcomes		Course outcomes	
	Code	Text	Code	Text
Knowledge and understanding	2.3	Normal macro, and micro-structure of body tissues, organs and systems of animals, birds and fish.	a1	Mention the different organs of respiratory tract.
			a2	identify different organs of urinary tract
			a3	Mention different organs of male and female genital tract.
			a4	Recognize the different endocrine glands.
			a5	Enumerate the different structures of eye, ear, integument and digestive system.
Intellectual skills	4.1	Foster critical thinking and scientific curiosity.	b1	Distinguish different organs of respiratory tract.
			b2	Differentiate between different organs of urinary tract
			b3	Compare between male and female genital tract.
			b4	classify different endocrine glands
			b5	Differentiate between different structures of eye, ear, integument and digestive system.
Professional and practical skills	3.1	Employ all the gained knowledge and understanding in clinical practice in a skillful pattern.	c1	Prepare tissue for staining
			c2	Stain tissues with different stains
			c3	Examine different tissue

General and transferable skills				types
			c4	Identify different class of cells
	D			
	5.1	Work under pressure and / or contradictory conditions.	d1	Work under pressure during lab session
	5.2	Function in a multidisciplinary team.	d2	Communicate effectively with lab collage
	5.5	Search for new information and technology as well as adopt life-long self learning ethics.	d3	Search for new information and technology
	5.6	Utilize computer and internet skills.	d4	Self-learning during lecture

4- Teaching and learning methods					
Lectures	√	Discussion & seminar	√	Practical	√
Presentation & movies	√	Problem solving	√	Brain storming	√
Others					

- Course Schedule:

Number of the Week	Scientific content of the course (Course Topics)	Total Weekly Hours	Expected number of the Learning Hours			
			Theoretical teaching (lectures/ discussion groups/)	Training (Practical /Clinical/)	Self-learning (Tasks/ Assignment s/ Projects/ ...)	Other (to be determined)
W1	Respiratory System	2(3)	1	1(2)		0

W2	Urinary System	2(3)	1	1(2)		0
W3	Male Genital system, testes, epididymis	2(3)	1	1(2)	Formative quiz	0
W4	Male Genital system, ductus deference, glands	2(3)	1	1(2)		0
W5	Male Genital system, penis, urethra	2(3)	1	1(2)		0
W6	Female Genital system, ovary, oviduct	2(3)	1	1(2)	Formative quiz	0
W7	Semester work including 1 hour exam	-----				
W8	Female Genital system, uterus, cervix, vagina	2(3)	1	1(2)		0
W9	Endocrine System, pituitary, thyroid, parathyroid	2(3)	2	1(2)		0
W10	Endocrine System, adrenal, pineal, islets of Langerhans	2(3)	1	1(2)		0
W11	Endocrine System	2(3)	1	1(2)	Formative quiz	0
W12	Sense organs, Eye	2(3)	1	1(2)		0
W13	Sense organs, Ear	2(3)	1	1(2)	Formative quiz	0
W14	Integument	2(3)	1	1		0
	Digestive system		-----	1		0
W15	Practical exam	-----				

5- Methods of students' assessment

a- Assessment methods (summative and formative)

1. **Formative assessment:** including (weekly quizzes, homework assignments and surveys).
2. **Summative assessment** including (quizzes, class activities, 1hr exam, practical exam, oral exams and final written exams).

b- Assessment schedule and weight

Assessment method	Assessment Timing (Week Number)	Marks/ Scores	Percent Percentage of total course Marks
Semester work including 1 hr exam	7 th week	10	10%
Formative assessment	Throughout the semester	-----	-----
Practical exam	15 th week	30	30%
oral exam	End of semester	10	10%
Written exam	End of semester	50	50%
Assignments / Project /Portfolio/ Logbook	-----	-----	-----
Field training	-----	-----	-----
Other (Mention)	-----	-----	-----
Total		100	100%

6- Learning resources and supportive facilities:

Learning resources	Main reference	Student handbook: Fundamental veterinary histology, Edited by Staff members. Essential Laboratory Histology, Edit by Staff members
	Essential books (text	J. Dunn (2014) Manual of diagnostic cytology of the dog and cat D. F. Paulsen (2010) histology and cell biology D. A. Samuelson (2007) Veterinary Histology

	books)	<p><i>Eroschenko, V. P. (2005):</i> difiore's Atlas of histology. 10th Ed. Philadelphia Baltimore New York London Buenos Aires Hong Kong Sydney Tokyo</p> <p><i>Junqueira, L. C. and Carneiro J. (2003):</i> Basic histology. Tenth Edition. McGraw-Hill. New York Chicago San Francisco Lisbon London Madrid Mexico city New Delhi San Juan Seoul Singapore Sydney Toronto</p> <p>D. A. Samuelson (2007) Veterinary Histology</p> <p><i>Drury R. A. B. and Wallington E. A. (1980):-</i> Carleton's Histological technique. 4th ED., Oxford Unvi., Press. London, New York, Toronto.</p>
	Periodicals, Web sites, . . . etc	<ul style="list-style-type: none"> • Journal of Anatomy. • Journal of Cell Ultrastructure • Cell tissue Research • Anatomia Histologia Embryologia • www.ekb.eg • http://www.drihab1.com • http://www.vt.com
	Learning platform	Thinqi
supportive facilities		<ol style="list-style-type: none"> 1. Data show 2. White board

		<p>3. Laboratory.</p> <p>4. Tissue processing & staining</p>
	Devices & instruments	<p>Devices</p> <p><input type="checkbox"/> Microscope</p> <p><input type="checkbox"/> Microtome</p> <p><input type="checkbox"/> Automatic stainer</p> <p><input type="checkbox"/> water bath</p> <p><input type="checkbox"/> Incubator</p> <p>instruments</p> <p><input type="checkbox"/> Jars</p> <p><input type="checkbox"/> Pipette</p> <p><input type="checkbox"/> Cylinder</p> <p><input type="checkbox"/> beaker</p> <p><input type="checkbox"/> Analytical balance</p>

Matrices:

A- Content and ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Respiratory System	a1	b1	c1, c2, c4	d1,d2. d3, d4
Urinary System	a2	b2	c1, c3, c4	d1,d2. d3, d4
Male Genital system	a3	b3	c1, c2, c4	d1,d2. d3, d4
Female Genital system	a3	b3	c1, c2, c4	d1,d2. d3, d4
Endocrine System	a4	b4	c3, c4	d1,d2. d3, d4
Sense organs	a5	b5	c3, c4	d1,d2. d3, d4
Integument, digestive system	a5	b5	c3, c4	d1,d2. d3, d4

B- Teaching and learning methods and ILOs matrix:

ILOs		Teaching and Learning method					
		L	P&M	D&S	P	Ps	Bs
Knowledge and understanding	a1	√		√		√	
	a2	√		√		√	
	a3	√		√		√	
	a4	√		√		√	
	a5	√		√		√	
Intellectual skills	b1	√		√			√
	b2	√		√			√
	b3	√		√			√
	b4	√		√			√
	b5	√		√			
Professional and practical skills	c1				√		
	c2				√		
	c3				√		
	c4				√		
General skills	d1	√					√
	d2	√					√
	d3	√					√
	d4	√					√

L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars P: Practical Ps: Problem solving, Bs: Brain storming

C- Assessment methods and ILOs matrix:

ILOs		assessment method				
		Formative assesment	Semester work (1 hr exam)	Oral	practical	written
Knowledge and understanding	a1		√	√		√
	a2		√	√		√
	a3		√	√		√
	a4		√	√		√
	a5		√	√		√
	b1	√	√	√		√
	b2	√	√	√		√

Intellectual skills	b3	√	√	√		√
	b4	√	√	√		√
	b5	√	√	√		√
Professional and practical skills	c1				√	
	c2				√	
	c3				√	
	c4				√	
General skills	d1	√		√		
	d2	√		√		
	d3	√		√		
	d4	√		√		

-Course coordinator:

Prof. Dr. Ihab Mahmoud Abd El-Aal EL-Zoghby

-Program coordinator: Prof. Dr. Mahmoud Abouelroos