



Applied and Comparative Anatomy (General and Special) Course Spec 2014/2015											
1-Basic information											
Course Code: 211 & 221											
Course title : Applied and Comparative Anatomy (General and Special)											
Academic year:	2 nd year (1 st and 2 nd semesters)										
Programme title:	Programme title: Bachelor of Veterinary Medical Sciences										
Contact	Contact Lecture: 2 hour/week/semester										
hours/week/semester:	Practical: 3 hour/week/semester										

2-Professional information

1- Overall aims of course

t the end of the course, the students are expected to know and understand the veterinary comparative anatomy and development of the different systems constructing the mammalian body and apply all anatomical information in the field of clinics via applied anatomy.

2- Intended learning outcomes of course (ILOs) <u>a-Knowledge and understanding</u>

By the end of this course the student should be:

al- Describe the basic anatomical terms of structures and organs

a2- Recognize the comparative anatomy of the digestive and respiratory systems

a3- Explain the comparative developmental anatomy of the different systems in the mammalian bodies.

a4- Indicate the anatomy of the nervous system and sense organs and know how it controls the animal body.

a5- Clarify the topographical anatomy via the applied anatomy.

a6- Describe the Lymphatic system and its importance in the field of veterinary anatomy.

b-Intellectual skills

By the end of this course the student should be able to:

b1- Relate brief information about the organs that concerned with the clinical examination.

b2- Differentiate the comparative anatomy of different organs in the animal body.

b3- Point out the basic principles and sequential development of the organ systems.

b4- Diagnose the anatomical problems in the dissecting rooms.

c-Professional and practical skills

By the end of this course the student should be able to:

c1- Dissect the thoracic and abdominal wall accurately .

c2- Use the easy and correct dissection of the digestive and respiratory organs.

c3- Demonstrate anatomical facts in dissection of the head, neck and sense organs.

C4- . Employs all the gained knowledge and understanding of anatomy of the

nervous system in a skillful pattern

C5- Illustrate topographical position of the organ in relation to clinical subjects

d-General and transferable skill

d1- Communicate efficiently with colleagues and teachers

d2- Construct a poster

d3- Manage the time efficiently.

d4- Develop a team work.

3-Topics and contents First semester

<u>i ii st semester</u>											
Торіс	N	No. of hours									
	Lectures	Practical	Total								
Systems of mammalian body (general)	24		24								
Digestive system											
Respiratory system											
Clinical anatomy of the digestive and respiratory											
systems											
Lymphatic system	6		6								
1. Dissection of the abdomen and thorax		45	45								
2. Bones of axial skeleton											
3. Muscles of abdomen and thorax											
4. Splanchnology											
Total	30	45	75								

Second semester

Торіс	Ν		
	Lectures	Practical	Total
Comparative developmental anatomy of all systems	12		12
Nervous system	10	2	12
Anatomy of the sense organs	4	3	7
Applied anatomy	4		4
1. Dissection of the head and neck		40	40
2. Skull *comparative*			
3. Muscles of head			
4. Structures in the head			
Total	30	45	75

⁴-Teaching and learning methods -

- Lectures
- Practical sections
- Dissection groups
- Small group learning for enhancement of self learning

6-Student assessment

6.1.Assessments methods												
Method	Matrix alignment of the measured ILOs/ Assessments methods											
Methou	K&U (a)	I.S (b)	P&P.S ©	G.S (d)								
1-Student activities and periodical exam	2,3,4 1, 2,3, 4, 5, 6	4		<mark>1-4</mark>								
2- Practical examinations		1,2	1,2,3,4,5									
3- Oral examinations	1,3,4,6	2,3										
4- Written examinations	1,2,3,4,5,6	1,2										

6.2-Assessment schedules/semester							
Assessments methods	Time of Assessments						
1- Periodical exam	8 th Week						
2- Practical examinations	16 th Week						
3- Written examination	16 th week						
4- Oral examinations	16 th week						
5- Student activities	Along the semester						

Aggoggmont	Allocated Mark							
Assessment	1 st term	2 nd term	Total					
1-Student activity and periodic examinations	5	5	10					
2- Practical examinations	10	10	20					
3- Written examination	25	25	50					
4- Oral examinations	10	10	20					

6.3-Weight of assessments

7- List of references

7.1. Departmental Notes

- 1- Digestive, respiratory and lymphatic system
- 2- Neuroanatomy.
- 3- Comparative developmental anatomy
- 4- Applied anatomy.
- 5- Dissection of the abdomen and thorax.
- 6- Dissection of the head and neck

7.2.Essential books

1-Textbook of Veterinary Anatomy, 3rd ed. (2002): By Dyce, Sack and Wensing.W.B. Saunders Company, Philadelphia.

7.3. Recommended books

- 1. Budras, K., Sack, W. O. and Röck, S. (2009): Anatomy of the horse. Fifth, revised Edition. Schlütersche Verlagsgesellschaft. Hans-Böckler-Alle 7, 30173 Hannover.
- 2. König, H. & Liebich, H. G. (2004): Veterinary Anatomy of Domestic Mammals. Schattauer, GmbH, Stuttgart.

7.4. Journals, Websitesetc

Journals:

- Anatomia, Histologia, Embryologia, (Journal of the World Association of Veterinary Anatomists)
- Anatomical Record
- Veterinary Radiology

Periodicals, web sites, etc.

Periodicals, web sites, etc.

• http://vanat.cvm.umn.edu

- Veterinary Anatomy Course.
- CONVINCE
- Comparative Mammalian Brain Collection.
- Veterinary Courseware at Massey University , New Zealand

Head of department

Course coordinator

Dr. Reda rashed

Dr. Khaled shoghy

Matrix alignment of the course topics and ILOs

FIRST SEMESTER

Торіс	ho). of urs eek	T ot al	rs fo	Ho urs for pra ct.	ILOs				T&L.methods				
	L ec t.	Pr ac t.	ho ur s /se m es te r			K & U (a)	I.S (b)	P.P.S ©	G.T .S (d)	Le ct.	Pr act	Self& active leanin g	Audi ovisu al	Case study
Systems of mammalian body Digestive system Respiratory system Clinical anatomy of the digestive and respiratory systems		3	39	24	15	1, 2	1,2		2	\checkmark	\checkmark	\checkmark	\checkmark	
Lymphatic system	2		6	6	0	1, 6	4		2	\checkmark		\checkmark		
Dissection of the abdomen and thorax Bones of axial skeleton Muscles of abdomen and thorax Splanchnology			30		30		1,4	1,2, 5	1,3, 4		\checkmark	\checkmark	\checkmark	

SECOND SEMESTER

	No. of hours /week		Tota l	ou	H ou rs		ILOs T&L. methods							
Торіс	Le ct.	Pr ac t.	hou rs /sem ester	rs fo sem lec	fo r Pr lec ac	K & U (a)	I.S (b)	P.P .S ©	G.T .S (d)	Le ct.	Pra ct.	Self& active leanin g	Aud iovi sual	Case study
Comparative			10	10		1 2	2.2		1,2,	./				
developmental anatomy of all systems			12	12		1,3	2,3		3	N				
Nervous system			12	10	2	1,4	4	4	2					
Anatomy of the sense	2	3	7	4	3	5		3						
organs			/	4	5	5		5		v	v			
Applied anatomy			4	4		5	1		1					
Dissection of the head			40	_	40		1,2	3,4	1,3,					
and neck			40	-	40		1,2	5,4	4		N	v	N	
Total			75	30	45									