

University: Damanhour  
Department: Animal Medicine



Faculty: Veterinary Medicine

## Internal Medicine Course Specifications (2012 - 2013)

Program(s) on which the course is given: BVSc  
Department offering the program: ---  
Department offering the course: Animal Medicine  
Major or Minor element of programs: Major  
Academic year /Level: 5<sup>th</sup> Year 2 semesters  
Date of specification approval:

### A. BASIC INFORMATION

Title: Internal Medicine

Code: 5AMED, 5BMED

Hours:

Lectures 2 hrs/week

Practical 2 hrs/week

Total 12 hrs

### B. PROFESSIONAL INFORMATION

1. Overall aims of the course: Student and graduates should gain the following

- To support achievement of basic knowledge of normal condition and healthy state of the animals
- To enable students to provide basic clinical examination for different animal species.
- To provide students with an appropriate background covering the common and important internal medical diseases in all animal species
- To enable the development and application of appropriate professional attitudes, communication and problem solving skills.

2. Intended Learning Outcomes (ILOs) of the Course:

a. Knowledge and Understanding:

- a1 Determine the most common internal medical diseases affecting all species of the animals, and describe appropriate management for these disorders.
- a2 Describe the causes, pathogenesis, clinical symptoms, investigations, treatment and prognosis of the most important internal medical diseases.
- a3 Illustrate the impact of congenital and inherited affections on farm animals.
- a4 Describe appropriate measures for health promotion as well as prevention of infection in animals.
- a5 Describe appropriate management for abnormalities affecting growth and development.
- a6 Cite the management priorities for different animal emergencies

b. Intellectual Skills: Graduate should have:

- b1 Check vital signs in young and adult animals.
- b2 Assess physical development according to standard and recognize abnormalities.
- b3 Perform appropriate clinical assessments for animals.
- b4 Recognize and institute appropriate initial management for different animal emergencies.
- b5 Construct a proper history for a patient.
- b6 Perform an adequate clinical examination for a patient animal and identify deviations from normal.
- b7 Assess, classify and describe appropriate treatment for affected animals according to the principles of the integrated management

**c. Professional and Practical Skills:**

- c<sup>1</sup>) Interpret the most important symptoms and signs of disease in animals..
- c<sup>2</sup>) Formulate appropriate management plans for individual patients presenting with the most common internal medicine. The management plan should indicate investigations (and how they would be interpreted) as well as treatment.
- c<sup>3</sup>) Make decisions regarding common clinical situations using appropriate problem solving skills and relevant ethical principles

**d. General and Transferable Skills and Attitude:**

- d<sup>1</sup>) Present patient's data in an organized and informative manner.
- d<sup>2</sup>) Communicate effectively with animal's owners using appropriate communication skills.
- d<sup>3</sup>) Demonstrate appropriate professional attitudes and behaviors in different practice situations.

**ƒ. Contents:**

Topic	No. of hours	Lectures	Practical
<b>First term</b>			
▪ Digestive system	30	18	12
▪ Urinary system	22	12	10
▪ Liver diseases	8	4	4
<b>Second term</b>			
▪ Metabolic diseases.	28	18	10
▪ Nutritional deficiency.	26	18	8
▪ Musculoskeletal system	6	4	2
<b>Total</b>	<b>120</b>	<b>74</b>	<b>46</b>

**§. Teaching and Learning Methods:**

- 4.1 Lectures
- 4.2 Clinical and small group sessions:  
Clinical training (Clinical demonstrations, practice of skills, and discussions)
  - (a) General experimental animal teaching
  - (b) Outpatient clinic
- 4.3 Tutorial classes (small group teaching)

**°. Student Assessment Methods:**

Exam		
5.1	Written Mid-term	To assess the ability to understand and remember
5.2	Written Final-term	To assess the ability to understand and remember
5.3	Practical Final-term	To assess professional and practical skills
5.4	Oral Final-term	To assess skills of investigation and discussion

**Assessment Schedule** (in each semester):

	Exam	Week
Assessment <sup>1</sup>	Written Mid-term	8 <sup>th</sup>
Assessment <sup>2</sup>	Written Final-term	16 <sup>th</sup>
Assessment <sup>3</sup>	Practical Final-term	16 <sup>th</sup>
Assessment <sup>4</sup>	Oral Final-term	16 <sup>th</sup>

**Weighing of assessments**

	Exam	Per Semester (%)	Total (%)
Assessment <sup>1</sup>	Written Mid-term	10	20
Assessment <sup>2</sup>	Written Final-term	25	50
Assessment <sup>3</sup>	Practical Final-term	10	20
Assessment <sup>4</sup>	Oral Final-term	5	10
<b>Total</b>		<b>50</b>	<b>100</b>

## ٦. List of References:

### ٦,١. Course Notes:

- Department books

### ٦,٢. Essential Books:

- Hungerford, T.G. (١٩٩٠): Diseases of livestock. ٩<sup>th</sup> Ed. McGraw-Hill Book Company, Sydney, New York, London, Tokyo, Toronto.
- Duncan, J. R. and Prasse, K. W. (١٩٨٦): Veterinary Laboratory Medicine ٣<sup>rd</sup> Ed Iowa State University Press, Ames Iowa.
- Martin, W.B. and Aitken, I.D. (٢٠٠٠): Diseases of sheep ٣<sup>rd</sup> Ed. Blackwell Science.
- Abd Elhady A. M. (٢٠٠٤): Clinical and biochemical studies of induced pregnancy toxemia in does. M.D.Thesis, Tanta University.
- Blowey R.W. and Weaver A.W. (١٩٩١): A color atlas of diseases and disorders of cattle. Wolfe Publishing Limited.
- Karl A. L. and Mary C. S. (١٩٩٣): Color atlas of diseases and disorders of the sheep and goats.
- Midhat N. M. (١٩٩٥): Nutritional problems affecting calcium, phosphorus and magnesium metabolism in Egyptian cattle and buffaloes. Ph D. Zagazig University.
- Philip R.S., Colin D.P. and Alastair I. M. (٢٠١١): Cattle Medicine. Manson Publishing/The Veterinary Press.
- Pugh D.G.(٢٠٠٢): Sheep and goat medicine. ١<sup>st</sup> ed., Saunders An Imprint of Elsevier, Philadelphia, Pennsylvania
- Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (٢٠٠٦): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats ١٠<sup>th</sup> Ed. Baillere Tindall, London.
- Rosenberger G. (١٩٧٩): Clinical examination of cattle. ٢<sup>nd</sup> Verlag Paul Parey Berlin and Hamburg.

### ٦,٣. Recommended Books:

- Smith, B.P (٢٠٠٢): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.

### ٦,٤. Periodicals, websites, ..... etc

## ٧. Facilities Required for Teaching and Learning

- LECTURE HALL: Writing board, overhead and slide projectors are available. Data show is available with prior arrangements.
- SMALL GROUP CLASSES: Each group is present separately in this room.
- LIBRARY: ٣<sup>rd</sup> floor of management building in the faculty of veterinary medicine, Elbostan.
- CLINICAL FACILITIES: General and specialized outpatient clinics , Animal farm in the faculty of veterinary medicine, Elbostan. Specialized laboratory units
- SKILLS: Training of students in all branches of internal medicine during conduction of the course.

**Course Coordinator:** Prof. Dr. M. Y. Nasr

**Head of Department:** Prof. Dr. M. Y. Nasr

**Date:**

