

FOURTH YEAR SUBJECT CODES

University: Damanhour University
Department: Animal Medicine

Faculty: Veterinary Medicine

Internal Medicine Course Specifications (2019 - 2020)

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: 4th Year 2 semesters
Date of specification approval:

A. BASIC INFORMATION

Title: Internal Medicine

Code: 4AMED, 4BMED

Hours:

Lectures 2 hrs/week

Practical 2 hrs/week

Total 120 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:

- c1** Interpret the most important symptoms and signs of disease in animals..
- c2** 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.
- c3** Make decisions regarding common clinical situations using appropriate problem solving skills and relevant ethical principles

d. General and Transferable Skills and Attitude:

- d1** Present patient's data in an organized and informative manner.
- d2** Communicate effectively with animal's owners using appropriate communication skills.
- d3** Demonstrate appropriate professional attitudes and behaviors in different practice situations.

3. Contents:

Topic	No. of		
	hours	Lectures	Practical
First term			
▪ General Systemic State	30	16	14
▪ Respiratory System	30	16	14
Second term			
▪ Cardiovascular system	12	9	3
▪ Skin diseases	25	16	9
▪ Nervous system	10	7	3
▪ Urinary system	13	9	4
Total	120	72	48

4. 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)

5. 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 1	Written Mid-term	8 th
Assessment 2	Written Final-term	16 th
Assessment 3	Practical Final-term	16 th
Assessment 4	Oral Final-term	16 th

Weighing of assessments

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

6. List of References:

6.1. Course Notes:

- Department books

6.2. Essential Books:

Duncan, J. R. and Prasse, K. W. (1986): Veterinary Laboratory Medicine 2nd Ed Iowa State University Press, Ames Iowa.

Martin, W.B. and Aitken, I.D. (2000): Diseases of sheep 3rd Ed. Blackwell Science.

Philip R.S., Colin D.P. and Alastair I. M. (2011): Cattle Medicine.

Manson Publishing/The Veterinary Press.

Pugh D.G.(2002): Sheep and goat medicine. 1st ed., Saunders An Imprint of Elsevier, Philadelphia, Pennsylvania

Radostitis O.M., Gay C.C., Hinchcliff K. W. and Constable P. D. (2006): Veterinary Medicine, A textbook of the diseases of cattle, horses, sheep, pigs and goats 10th Ed. Baillere Tindall, London.

Rosenberger G. (1979): Clinical examination of cattle. 2nd Verlag Paul Parey Berlin and Hamburg.

Constable, P. D., Done, H. S., Hinchcliff, K. W. Grunberg, W. 2017. Veterinary Medicine. A text book of diseases in cattle, horses, sheep, pigs and goats.Elisevier Ltd. 11th Ed..

6.3. Recommended Books:

- Smith, B.P (2002): Large animal internal medicine, third ed., Mosby, St Louis, London, Philadelphia, Sydney, Toronto.

6.4. websites:

Scientific websites

- **Lactation Biology:** <http://classes.aces.uiuc.edu/ansci308/index.html>
- **National Dairy Database:** <http://www.inform.umd.edu:8080/edres/topic/agr/ndd>
- **The Babcock Institute:** <http://babcock.cals.wisc.edu>
- **Dairy Site form Purdue University:**
<http://www.anr.ces.purdue.edu/anr/anr/dairy/frame.htm>
- **Dairy Nutrition Home. Pennsylvania State University:** <http://www3.das.psu.edu/dcn/>
- **WWW Virtual Library for Dairy Production* (Oklahoma).**
<http://www.ansi.okstate.edu/library/dairy/>
- **Dairy Purdue:** <http://www.anr.ces.purdue.edu/anr/anr/dairy/frame.htm>
- **Dairy Cattle Information (NorthCarolina):**
<http://mcdowell.ces.state.nc.us/staff/mdeluca/pages/dairy.shtml>
- **US Dairy Export Council:** <http://www.usdec.org/about/whoweare.htm>

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- Organizations Associated with Dairy Production:
<http://www.ansi.okstate.edu/library/dairy/organiz.htm#organ>
 - The International Dairy Federation (IDF): <http://www.fil-idf.org/>
 - Dairy Biz: <http://www.dairybiz.com/>
 - Feeding the Newborn Dairy Calf On–line Slide Show:
<http://www3.das.psu.edu/dcn/calfmgt/index.html>
 - Managing of dairy heifers : <http://www3.das.psu.edu/dcn/calfmgt/385/index.html>
 - http://www.aphis.usda.gov/vs/ceah/cahm/Dairy_Cattle/drymgmt.htm

Scientific Journals

- Journal of animal science
- Journal of dairy Science
- Small ruminant research
- Tropical Animal Health and Reproduction
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7. 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:** 3rd floor in the faculty of veterinary medicine,
- **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. Naser

Head of Department: Dr. Noha Abd-Allah Beder

