



South Valley University

Faculty of Veterinary Medicine, Qena

## Course Specifications

**Programme (s) on which the course is given:** Bachelor of veterinary science undergraduate (B.V.Sc)

**Major or Minor element of programmes:** Major

**Department offering the programme:** *Animal Medicine*

**Department offering the course:** *Animal Medicine*

**Academic year / Level:** 5<sup>th</sup> year

**Date of specification approval:**

### A- Basic Information

<b>Title:</b>	<i>Internal Medicine (2<sup>nd</sup> part)</i>
<b>Code:</b>	513
<b>Lecture:</b>	2 hrs / weekly / Semester
<b>Practical:</b>	2 hrs / weekly/ Semester
<b>Total:</b>	4 hrs / weekly/ Semester

### B- Professional Information

#### 1 – Overall Aims of Course

**Knowledge of Causes, Pathogenesis, Symptoms, diagnosis clinically, laboratory, Treatment and control of internal diseases in animal species.**

#### 2 – Intended Learning Outcomes of Course (ILOs)

##### a- Knowledge and Understanding:

Graduates must acquire the following knowledge and understanding about:-

- a1- Identification of diseases.
- a2- Diagnosis of diseases.
- a3-Treatment of diseased animals.
- a4-Prevention and control of diseases.

##### b- Intellectual Skills

Graduate must have the ability to:-

- b1- Differentiate between healthy and diseased animal.
- b2- Differentiate between similar diseases.
- b3- Diagnose of diseases.
- b4- Treat and chose the correct drugs.
- b5- Use drugs in correct manner and deal with the economical losses in the animal farming

##### c- Professional and Practical Skills

Graduates must attain the capacity to:-

- c1- Analyze the incidence and symptoms of diseases .

- c2- Methods and techniques for differentiating between similar diseases.
- c3- Methods and techniques for diagnosis of diseases.
- c4- Correct examination and diagnosis of diseased animals.
- c5- Different drugs and its route of administration and correct use.

#### d- General and Transferable Skills

Graduates must have the ability to:-

- d1-Identify and diagnose the different diseases.
- d2- Correctly use drugs and treatment.
- d3-Prevent and control different diseases.

### 3- Contents

Theoretical (Lectures)

Topic	No. of hours	Lecture
Diseases of digestive system (monogastric Animals)	3	1.5
Diseases of digestive system (ruminants)	3	1.5
Liver diseases in different species	2	1
Diseases of circulatory and lymphatic system in different species	4	2
Metabolic disorders in different species	4	2
Deficiency diseases in different species	2	1
Diseases of the Nervous system in different species	2	1
Diseases of musculoskeletal system in different species	2	1
Endocrine disorders	2	1

Practical (Lesson)

Topic	No. of hours	Lesson
Diseases of digestive system (monogastric Animals) (cases, how to examine and treat)	3	1.5
Diseases of digestive system (ruminants) (cases, how to examine and treat)	3	1.5
Liver diseases in different species. (cases, how to examine and treat)	2	1
Diseases of circulatory and lymphatic system in different species. (cases, how to examine and treat)	4	2
Metabolic disorders in different species. (cases, how to examine and treat)	4	2
Deficiency diseases in different species. (cases, how to examine and treat)	2	1
Diseases of the Nervous system in different species. (cases, how to examine and treat)	2	1
Diseases of musculoskeletal system in different species. (cases, how to examine and treat)	2	1
Endocrine disorders. (cases, how to examine and treat)	2	1

### 4- Teaching and Learning Methods

- 4.1-Data show and slide show.
- 4.2-Black board and choke

4.3-Hand examination method

4.4- Tools (using in medical exam)

## 5- Student Assessment Methods

5.1 Mid-Term examination to assess the intended learning outcomes in half of the semester

5.2 Practical examination to assess intended learning and practical skills outcomes

5.3 Final-term Examination to assess the intended learning outcomes in whole semester

5.4 Oral examination to assess the intended learning and skills outcomes in whole subject and related veterinary science.

### Assessment Schedule:

Assessment 1: Mid-Term examination Week (8<sup>th</sup> week of the semester)

Assessment 2: Practical examination. Week (13<sup>th</sup> week of the semester)

Assessment 3: Final-term Examination. Week (16<sup>th</sup> week of the semester)

Assessment 4: Oral examination. Week (15<sup>th</sup> week of the semester)

### Weighting of Assessments:

Semester Work	20 %	(Mid-Term Examination 10%, other types of Assessment 10%)
Final-term Examination	50 %	
Oral Examination	10 %	
Practical Examination	20 %	
Total		100%

Any formative only assessments

❖ Other types of assessment (Case report & seminars, essays, and making posters)

## 6- List of References

### 6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students
- And Internal Diseases with from Faculty of veterinary medicine, Assiut University

### 6.2- Essential Books (Text Books)

- Large Animal Internal Medicine, Timothy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).
- Textbook of veterinary internal medicine.

### 6.3- Recommended Books

In our Faculty Library:

1. Veterinary applied pharmacology and therapeutics, Brander, G.C.
2. Handbook of feline medicine.
3. The veterinary book for sheep farmers, Henderson, David C.
4. Veterinary pharmacology and therapeutics.
5. Small animal medical diagnosis.
6. Bovine medicine
7. Color atlas of small animal dermatology, Kummel, Barbara A.
8. Veterinary medicine, Radostits, O.M.
9. Clinical endocrinology, Martin, Laurence
10. Large animal internal medicine, Smith, Bradford P.
11. Outline of clinical diagnosis in horse, Pinsen, P.J.N.
12. Saunders manual of small animal practice.
13. Feline practice, Norsworthy, Gary D.
14. A color atlas of diseases and disorders of the horse, Knottenbelt, Derek C.
15. Color atlas and text of equine ophthalmology.
16. Pocket companion to textbook of veterinary internal medicine, Ettinger, Stephen J.

### 6.4- Periodicals, Web Sites, ... etc

**Journal of Veterinary Internal Medicine** (<http://www.wiley.com/bw/journal.asp>)

- [American College of Veterinary Internal Medicine](#)
- [Internal Medicine](#) [www.criticalcarevets.com](http://www.criticalcarevets.com)
- [Internal Medicine](#) [www.animal-emergency.com](http://www.animal-emergency.com)
- [Central Texas Veterinary Specialty Hospital - Internal Medicine](#)
- [IVIS Bookstore: Ruminant Medicine - International Veterinary](#)
- [Alberta Agriculture, Food and Rural Development](#)  
Livestock diseases and parasites.
- [American Association of Bovine Practitioners](#)  
The American Association of Bovine Practitioners is an international association of veterinarians organized to enhance the professional lives of its members through relevant continuing education that will improve the well-being of cattle and the economic success of their owners, increase awareness and promote leadership for issues critical to cattle industries, and improve opportunities for careers in bovine medicine.
- [American Association of Small Ruminant Practitioners](#)
- [Animal Disease Information](#)  
Animal disease factsheets, image database, power points, zoonotic fast facts, disease wall charts, etc.
- [Bovine Tuberculosis Eradication: Uniform Methods and Rules](#) (PDF) These Uniform Methods and Rules (UM&R) are the

minimum standards adopted and approved by the Animal and Plant Health Inspection Service (APHIS). They were established for the maintenance of tuberculosis-free accredited herds of cattle and bison and the maintenance of State or zone status in the U.S. Department of Agriculture's (USDA) tuberculosis eradication program. These minimum standards do not preclude the adoption of more stringent standards by any State or zone.

- [Cattle Diseases](#)  
University of Nebraska - NU Institute of Agriculture and Natural Resources
- [Food Animal Production Medicine](#)  
This helpful website contains a wide variety of resources for food animal veterinarians. Click on the forms and info link to be connected to PDF files, photos, and videos covering nutrition, milk quality, husbandry (stalls, ventilation, hygiene), software, and lameness. Click on goal form for a detailed plan to improve dairy production medicine goals. The publication link includes refereed journals, proceedings, abstracts, book chapters, links to popular press, and posters.
- [Goat Veterinary Society](#)
- [Infectious Disease In Food Animals](#)  
Proceedings of the USDA's National Animal Disease Center virtual conference on infectious diseases of food animals. Topics include respiratory disease, TSE, mycobacterium, salmonella, e. coli Infections, and spirochete diseases.
- [Large Animal Cardiology](#)  
Tutorial sessions presented by the University of Pennsylvania School of Veterinary Medicine.
- [Large Animal Veterinary Rounds](#)  
Rounds transcripts presented at the Western College of Veterinary Medicine (University of Saskatchewan) Department of Large Animal Clinical Sciences. The transcripts are available in .pdf format and are searchable by year.
- [National Mastitis Council](#)  
The NMC is a not-for-profit professional organization devoted to reducing mastitis and enhancing milk quality. The NMC promotes research and provides information to the dairy industry relative to udder health, milking management, and milk quality. Some proceedings are for members only, but clicking on information and resources opens a large variety of links for dairy practitioners and producers.
- [A Guide For Livestock Exporters](#)  
From The U.S. Department of Agriculture (USDA). Though this is a guide for livestock exporters, it contains a lot of information on general transport guidelines.
- [American Sheep Industry Association](#)



- [Animal Science - Oklahoma State University](#)
- [Beef Cattle Resources](#)
- [Bovine Theriogenology Images](#)  
A variety of images ranging from artificial insemination to postpartum. Gathered from the teaching files of R. G. Elmore, D.V.M., M.S. Diplomate American College of Theriogenology.
- [Breeds - Buffalo, Camel, Donkeys, etc](#)
- [Camelids, Bison, Buffalo, Deer & Elk, Donkeys, etc](#)
- [Cattle](#)  
Select from an alphabetical listing of cattle breeds ranging from Africander through Yanbian.
- [Cow-Calf Corner](#)  
File of information on cow, bull, and calf management. Covering topics from replacement heifers to general cow herd management. Sponsored by the Oklahoma Cooperative Extension Service and Oklahoma Education Television Authority.
- [Dairy Cattle](#)  
www virtual library for dairy production.
- [Dairy Cattle Nutrition Website](#)  
Pennsylvania State University, College of Agricultural Sciences maintains the Dairy Cattle Nutrition and Feeding Management program website. There are publications available covering topics from Diet Formulation and Evaluation to Water and Water Quality.
- [Emergency Euthanasia Of Sheep And Goats](#)  
This guide is designed to help owners, producers, auction market employees, livestock transporters, and law enforcement officers make the appropriate decisions regarding the emergency euthanasia of sheep and goats. Includes methods and positioning.
- [Food Animal Production Medicine Nutrition Topics](#)  
Publications, information, and data collection tools include: Herd Based Tests For Metabolic Disorders, Introduction To Ruminant Acidosis, Herd Based Diagnosis Of Ruminant Acidosis, Nutritional Management Of Ruminant Acidosis, Factors That Contribute To Ruminant Acidosis, Ketosis And Hepatic Lipidosis, Hypokalemia Article, Calcium Chloride Gel Treatment Of Parturient Dairy Cows, and a Herd Nutrition History And Evaluation Form.
- [Foot and Mouth Disease](#)  
Latest updates from The Ministry of Agriculture, Fisheries and Food in Great Britain.
- [History of the 1967 FMD Outbreak from the BBC](#)
- [Information on Foot and Mouth Disease](#)  
Detail information on the Aetiology, Epidemiology, Diagnosis, and Prevention and Control of the disease from the Office International des Epizooties.



- [Institute for Animal Health: Foot-and-Mouth Disease](#)
- [Livestock Library](#)
- [Llama](#)
- [Merino Varieties](#)
- [Pasture Management and Grazing](#)  
Information on pasture management, animal health, fencing, weed control and more.
- [Small Ruminant Information](#)  
A variety of extension publications on sheep from the University of Missouri. Covering subjects from Care of Ewes and Lambs at Lambing Time to Mastitis in the Ewe.
- [Yak](#)  
Yak information sites.
- [Equine Medicine](#)
- [Pet Animals Medicine - News Results](#)
- [All Pets Animal Hospital - Encinitas, CA](#)

## 7- Facilities Required for Teaching and Learning

- ❖ The 2<sup>st</sup> part of the Internal medicine should be given in 2 semesters (not in one semester) in total Lecture hrs 2 and practical hrs 2 (in each semester) to reach the National Academic reference standard in the other Veterinary Faculties in Egypt.
- ❖ In the other veterinary Faculties the whole subject of Internal medicine is taken in 4 Semesters (8hrs Lect. and 8hrs Practical).
- Animals (at least 2 pairs from each species for training and examination)
- Stanchions
- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray

Date: / /

**Course Coordinator:**

**Head of Department:**

Prof. Dr. M. Nour. Ismail

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