# Department of Animal Medicine

# Postgraduate Programs
# Course Specification
# (Diploma, Master, Ph.D.)

# Introduction

THE DEPARTMENT TEACH

POSTGRADUATE PROGRAMS

POSTGRADUATE DEGREES

1- **Program of Diploma** in Veterinary Medicine (in Specific field as mentioned in paragraph).
2- **Program of Master** of Veterinary Sciences (in all Veterinary subjects studied in the BVSc).
3- **Program of Philosophy Doctor** of Veterinary Sciences (in all Veterinary subjects studied in the BVSc).

# Postgraduate Programs
# Course Specification
# (2- Master Degree)

# COURSE SPECIFICATIONS FOR MASTER AND DOCTOR DEGREES IN VETERINARY SCIENCES

**(Courses for Master will not be choosen in the PhD Degree)**

**In the special fields of Internal Medicine and Infectious diseases:**

10-Dept of Animal Medicine: A) Subject on: Internal Medicine.

| Code | Subject |
|---|---|
| M/D 10A 01 | Advanced General Medicine (AGM) |
| M/D 10A 02 | Specific Courses in Diseases of Ruminants (SCDR) |
| M/D 10A 03 | Diseases of Equines (DE) |
| M/D 10A 04 | Diseases of Wild Animals (DWA) |
| M/D 10A 05 | Diseases of Pets (DP) |
| M/D 10A 06 | Diseases of Metabolic Disturbances (DMD) |
| M/D 10A 07 | Diseases of Nutritional Deficiency (DND) |
| M/D 10A 08 | Diseases of Skin (DS) |
| M/D 10A 09 | Diseases of Newly Borne Animals (DNBA) |
| M/D 10A 10 | Diseases of Blood and Fluids Balance (DBFB) |

# 1-COURSE SPECIFICATION OF ADVANCED GENERAL MEDICINE (AGM) M/DMED01

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** *Faculty of Veterinary Medicine*

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **ADVANCED GENERAL MEDICINE (AGM)**

**CODE:** **M/D 10A 01**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR(4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1- – OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Advanced General Medicine(AGM).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Advanced General Medicine(AGM).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Advanced General Medicine(AGM).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### a- Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### b- Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

c- PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

d- GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1-Introduction to Internal veterinary Medicine in different species | 4 | 2 | 1 |
| 2-Therapeutic consideration in Internal veterinary medicine | 8 | 4 | 2 |
| 3-General Systemic states in different species | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 4-Disorders of Acid-base balance, Electrolytes and Fluid Therapy | 8 | 4 | 2 |
| 5-Diseases of Respiratory system in different species | 8 | 4 | 2 |
| 6-Diseases of Urinary system in different species | 8 | 4 | 2 |
| 7-Skin Diseases in different species | 8 | 4 | 2 |
| 8-Diseases of newly born and Intensive care and Emergencies | 8 | 4 | 2 |
| 9-Diseases of digestive system (monogastric Animals) | 8 | 4 | 2 |
| 10Diseases of digestive system (ruminants) | 8 | 4 | 2 |
| 11-Liver diseases in different species | 4 | 2 | 1 |
| 12-Diseases of circulatory and lymphatic system in different species | 8 | 4 | 2 |
| 13-Metabolic disorders in different species | 8 | 4 | 2 |
| 14-Deficiency diseases in different species | 8 | 4 | 2 |
| 15-Diseases of the Nervous system in different species | 8 | 4 | 2 |
| 16-Diseases of musculoskeletal system in different species | 4 | 2 | 1 |
| 17-Endocrine disorders | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1-Introduction to Internal veterinary Medicine in different species | 4 | 2 | 1 |
| 2-Therapeutic consideration in Internal veterinary medicine | 8 | 4 | 2 |
| 3-General Systemic states in different species | 8 | 4 | 2 |
| 4-Disorders of Acid-base balance, Electrolytes and Fluid Therapy | 8 | 4 | 2 |
| 5-Diseases of Respiratory system in different species | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 6-Diseases of Urinary system in different species | 8 | 4 | 2 |
| 7-Skin Diseases in different species | 8 | 4 | 2 |
| 8-Diseases of newly born and Intensive care and Emergencies | 8 | 4 | 2 |
| 9-Diseases of digestive system (monogastric Animals) | 8 | 4 | 2 |
| 10Diseases of digestive system (ruminants) | 8 | 4 | 2 |
| 11-Liver diseases in different species | 4 | 2 | 1 |
| 12-Diseases of circulatory and lymphatic system in different species | 8 | 4 | 2 |
| 13-Metabolic disorders in different species | 8 | 4 | 2 |
| 14-Deficiency diseases in different species | 8 | 4 | 2 |
| 15-Diseases of the Nervous system in different species | 8 | 4 | 2 |
| 16-Diseases of musculoskeletal system in different species | 4 | 2 | 1 |
| 17-Endocrine disorders | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (8th week of the semester)

Assessment 2: Practical examination. Week (13th week of the semester)

Assessment 3: Final-term Examination. Week (14th week of the semester)

Assessment 4: Oral examination. Week (15th 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, 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, Timthy, 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:

- Veterinary applied pharmacology and therapeutics, Brander, G.C.
- Handbook of feline medicine.
- The veterinary book for sheep farmers, Henderson, David C.
- Veterinary pharmacology and therapeutics.
- Small animal medical diagnosis.
- Bovine medicine
- Color atlas of small animal dermatology, Kummel, Barbara A.
- Handbook of small animal dermatology, Moriello, Karen A.
- Canine and feline dermatology, Baker, K.P.
- Veterinary medicine, Radostits, o.M.
- Clinical endocrinology, Martin, Laurence
- Large animal internal medicine, Smith, Bradford P.
- Outline of clinical diagnosis in horse, Pinsen, P.J.N.
- Saunders manual of small animal practice.
- Feline practice, Norsworthy, Gary D.
- A color atlas of diseases and disorders of the horse, Knottenbelt, Derek C.
- Color atlas and text of equine ophthalmology.
- 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
- Internal Medicine 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 Ruminal Acidosis, Herd Based Diagnosis Of Ruminal Acidosis, Nutritional Management Of Ruminal Acidosis, Factors That Contribute To Ruminal 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**

- 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:**

Ass. Prof. Dr. / Adel Elsayed Ahmed Prof. Dr. M. Nour. Ismail

# 2-COURSE SPECIFICATION OF SPECIFIC COURSES IN DISEASES OF RUMINANTS (SCDR) M/DMED02

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** *Faculty of Veterinary Medicine*

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **SPECIFIC COURSES IN DISEASES OF RUMINANTS (SCDR)**
**CODE:** **M/D 10A 02**
**CREDIT HOURS:**
**LECTURE:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***
**TUTORIAL:**
**PRACTICAL:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***
**TOTAL:** ***8 HRS(MAIN) OR(4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Specific Courses in Diseases of Ruminants (SCDR).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Specific Courses in Diseases of Ruminants (SCDR).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Specific Courses in Diseases of Ruminants (SCDR).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

### C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

### D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction and Congenital conditions. | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born animal. | 8 | 2 | 2 |
| 3-Respiratory diseases and other Problems of Newly Born animal . | 8 | 2 | 2 |
| 4-Endo and Exoparasites of Newly Born animal. | 8 | 2 | 2 |
| 5-Trace elements Diseases of Newly Born animal. | 8 | 2 | 2 |
| 6-Mastitis. | 8 | 2 | 2 |
| 7-Viral Diseases in adult animals. | 8 | 2 | 2 |
| 8-Bacterial Conditions in adult animals. | 8 | 2 | 2 |
| 9-Metabolic problems in adult animals. | 8 | 2 | 2 |
| 10-Allmentary Conditions in adult animals. | 8 | 2 | 2 |
| 11- Respiratory Conditions in adult animals. | 8 | 2 | 2 |
| 12-Skin conditions in adult animals. | 4 | 2 | 1 |
| 13-Neurological Disorders in adult animals. | 8 | 2 | 2 |
| 14-Ocular Diseases in adult animals. | 4 | 2 | 1 |
| 15-Vaccination and Epidemiology. | 8 | 2 | 2 |
| 16-Anthelmintics. | 4 | 2 | 1 |
| 17-Antimicrobial agents and Production Enhancers. | 4 | 2 | 1 |
| 18- Alternative Medicine. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction and Congenital conditions. | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born animal. | 8 | 2 | 2 |
| 3-Respiratory diseases and other Problems of Newly Born animal . | 8 | 2 | 2 |
| 4-Endo and Ectoparasites of Newly Born animal. | 8 | 2 | 2 |
| 5-Trace elements Diseases of Newly Born animal. | 8 | 2 | 2 |
| 6-Mastitis | 8 | 2 | 2 |
| 7-Viral Diseases in adult animals. | 8 | 2 | 2 |
| 8-Bacterial Conditions in adult animals. | 8 | 2 | 2 |
| 9-Metabolic problems in adult animals.. | 8 | 2 | 2 |
| 10-Allmentary Conditions in adult animals. | 8 | 2 | 2 |
| 11- Respiratory Conditions in adult animals. | 8 | 2 | 2 |
| 12-Skin conditions in adult animals. | 4 | 2 | 1 |
| 13-Neurological Disorders in adult animals. | 8 | 2 | 2 |
| 14-Ocular Diseases in adult animals. | 4 | 2 | 1 |
| 15-Vaccination | 8 | 2 | 2 |
| 16-Anthelmintics | 4 | 2 | 1 |
| 17-Antimicrobial agents and Production Enhancers | 4 | 2 | 1 |
| 18- Alternative Medicine | 4 | 2 | 1 |

## 4– TEACHING AND LEARNING METHODS

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Writing Net researches on the Diseases of Ruminants.**

**4.4- Field studies and clinical cases.**

## 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 (15th week of after registration) |
| Assessment 2: Practical examination. | Week (30th week of after registration) |
| Assessment 3: Final-term Examination. | (After 12 months from the registration time) |
| Assessment 4: Oral examination. | After the final term examination |

## Weighting of Assessments:

| | |
|---|---|
| Mid-Term examination | 15 % |
| Practical Examination | 20 % |
| Final-term Examination | 50 % |
| Oral Examination. | 15 % |
| Total | 100% |

Any formative only assessments

- Other types of assessment (Case report, essays)

## 6- List of References

6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students
- Notes on Veterinary hematological laboratory diagnostics

6.2- Essential Books (Text Books)

- Bovine Medicine (1992), A.H. Andrews and R.W. Blowey, H.Boyed and R.G.Eddy.
- Small Animal Internal Medicine, Darcy Shaw, Sherri Ihle (1997).
- Large Animal Internal Medicine, Timothy H., Ogilvie (1998).

6.3- Recommended Books

In our Faculty Library:

- Pathology of Domestic animals.
- Microbiology, Prescott, Lansing M.
- Color atlas and text book of diagnostic microbiology, Koneman, elmer W.
- Clinical Virology, Leland, Diane Schultze.
- Medical and Veterinary Entmology, D.S.Kettle.

6.4- Periodicals, Web Sites, … etc

- Internal Medicine www.criticalcarevets.com
- Internal Medicine www.animal-emergency.com
- American Association of Small Ruminant Practitioners
- Food Animal Production Medicine
- Infectious Disease In Food Animals

**7- Facilities Required for Teaching and Learning:**

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 3-Course Specification of Diseases of Equines (DE) M/DMed03

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** ***EQUINE MEDICINE (EM)***

Code: **M/D 10A 03**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR(4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Equine Medicine (EM).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Equine Medicine (EM).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Equine Medicine (EM).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

### C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

### D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction and Congenital conditions. | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born Equine. | 8 | 4 | 2 |
| 3-Respiratory diseases and other Problems of Newly Born Equine. | 8 | 4 | 2 |
| 4-Endo and Exoparasites of Newly Born Equine. | 8 | 4 | 2 |
| 5-Trace elements Diseases of Newly Born Equine. | 8 | 4 | 2 |
| 6-Hepatobiliarh diseases of Equine. | 8 | 4 | 2 |
| 7-Viral Diseases in adult Equine. | 8 | 4 | 2 |
| 8-Bacterial Conditions in adult Equine. | 8 | 4 | 2 |
| 9-Metabolic problems in adult Equine. | 8 | 4 | 2 |
| 10-Diseases of the Equine Gastrointestinal tract. | 8 | 4 | 2 |
| 11- Respiratory Conditions in adult Equine. | 8 | 4 | 2 |
| 12-Skin conditions in adult Equine. | 4 | 2 | 1 |
| 13-Neurological Disorders in adult animals. | 8 | 4 | 2 |
| 14-Ocular Diseases in adult Equine. | 4 | 2 | 1 |
| 15-Vaccination and Epidemiology | 8 | 4 | 2 |
| 16-Anthelmintics in Equine. | 4 | 2 | 1 |
| 17-Antimicrobial agents . | 4 | 2 | 1 |
| 18- Alternative Medicine. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction and Congenital conditions.(Cases and slid show) | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born Equine. (Cases and slid show) | 8 | 4 | 2 |
| 3-Respiratory diseases and other Problems of Newly Born Equine. (Cases and slid show) | 8 | 4 | 2 |
| 4-Endo and Ectoparasites of Newly Born Equine. (Cases and slid show) | 8 | 4 | 2 |
| 5-Trace elements Diseases of Newly Born Equine. (Cases and slid show) | 8 | 4 | 2 |
| 6-Hepatobiliarh diseases of Equine. (Cases and slid show) | 8 | 4 | 2 |
| 7-Viral Diseases in adult Equine. (Cases and slid show) | 8 | 4 | 2 |
| 8-Bacterial Conditions in adult Equine. (Cases and slid show) | 8 | 4 | 2 |
| 9-Metabolic problems in adult Equine. (Cases and slid show) | 8 | 4 | 2 |
| 10-Diseases of the Equine Gastrointestinal tract. (Cases and slid show) | 8 | 4 | 2 |
| 11- Respiratory Conditions in adult Equine. (Cases and slid show) | 8 | 4 | 2 |
| 12-Skin conditions in adult Equine. (Cases and slid show) | 4 | 2 | 2 |
| 13-Neurological Disorders in adult animals. (Cases and slid show) | 8 | 4 | 2 |
| 14-Ocular Diseases in adult Equine. (Cases and slid show) | 4 | 2 | 1 |
| 15-Vaccination and Epidemiology. (Cases and slid show) | 8 | 4 | 1 |
| 16-Anthelmintics in Equine. (preparation samples) | 4 | 2 | 1 |
| 17-Antimicrobial agents. (preparation samples) | 4 | 2 | 1 |
| 18- Alternative Medicine. (Cases and slid show) | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Writing Net researches on the Diseases of Ruminants.**

**4.4- Field studies and clinical cases.**

## 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 (15$^{th}$ week of after registration) |
| Assessment 2: Practical examination. | Week (30$^{th}$ week of after registration) |
| Assessment 3: Final-term Examination. | (After 12 months from the registration time) |
| Assessment 4: Oral examination. | After the final term examination |

**Weighting of Assessments:**

| | |
|---|---|
| Mid-Term examination | 15 % |
| Practical Examination | 20 % |
| Final-term Examination | 50 % |
| Oral Examination. | 15 % |
| Total | 100% |

Any formative only assessments

- ❖ Other types of assessment (Case report, essays)

## 6- List of References

### 6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students
- Notes on Equine Medicine.

### 6.2- Essential Books (Text Books)

- Large Animal Medicine, (Timothy H. Ogilvie 1998)

### 6.3- Recommended Books

In our Faculty Library:

- Large Animal Medicine, (Timothy H. Ogilvie 1998)
- Clinical chemistry.
- Pathology of Domestic animals.
- Microbiology, Prescott, Lansing M.
- Color atlas and text book of diagnostic microbiology, Koneman, elmer W.
- Clinical Virology, Leland, Diane Schultze.
- Medical and Veterinary Entmology, D.S.Kettle.

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

- http://www.vet.utk.edu/clinical/lacs/equine.php
- **http://equinemedicine.org/**
- **http://equine-sportsmedicine.com/index.html**
- **http://vetmedicine.about.com/od/horsebreeds/l/bldiseases_eq.htm**
- **http://csuvets.colostate.edu/equinehospital/medicine_faculty.html**
- **http://www.elsevier.com/wps/find/subject_books_browse.cws_home/750?q=1&SH1Code=H05&pseudotype=&sortBy=Title&showProducts=Y&letter=R**
- **http://www.azequine.com/index.html**

**7- Facilities Required for Teaching and Learning**

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

## 4-COURSE SPECIFICATION OF DISEASES OF WILD ANIMALS (DWA) M/D 10A 04

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **DISEASES OF WILD ANIMALS (DWA)**

**CODE:** **M/D 10A 04**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR (4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Diseases of Wild Animals (DWA).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Diseases of Wild Animals (DWA).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Diseases of Wild Animals (DWA).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Ecology and Conservation Biology. | 8 | 4 | 2 |
| 2- Conservation Medicine in Practice. | 8 | 4 | 2 |
| 3- Conservation Strategies and Disease. | 8 | 4 | 2 |
| 4- Research Laboratory Animal Medicine. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 5- Exotic Companion Animal Practice. | 8 | 4 | 2 |
| 6- Zoo Animal Medicine. | 8 | 4 | 2 |
| 7- Free-ranging Wildlife Medicine. | 8 | 4 | 2 |
| 8- Diagnostic and Therapeutic Challenges. | 8 | 4 | 2 |
| 9- Mechanical and Chemical Restraint of Wildlife. | 8 | 4 | 2 |
| 10- Invertebrate Perspectives. | 4 | 2 | 1 |
| 11- Amphibian Medicine. | 4 | 2 | 1 |
| 12- Reptile Medicine. | 8 | 4 | 2 |
| 13-Marine Mammal Medicine (An Introduction to the Care and Medicine of Cetaceans and Pinnipeds). | 4 | 2 | 1 |
| 14-Ungulate Medicine. | 8 | 4 | 2 |
| 15-Carnivore Medicine. | 8 | 4 | 2 |
| 16-Ferret Medicine. | 4 | 2 | 1 |
| 17-Rodent and Small Mammal Medicine. | 8 | 4 | 2 |
| 18-Primate Medicine. | 8 | 4 | 2 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Ecology and Conservation Biology.(slid and videos) | 8 | 4 | 2 |
| 2- Conservation Medicine in Practice. (slid and videos) | 8 | 4 | 2 |
| 3- Conservation Strategies and Disease. (slid and videos) | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 4- Research Laboratory Animal Medicine. (slid and videos) | 8 | 4 | 2 |
| 5- Exotic Companion Animal Practice. (slid and videos) | 8 | 4 | 2 |
| 6- Zoo Animal Medicine. (slid and videos) | 8 | 4 | 2 |
| 7- Free-ranging Wildlife Medicine. (slid and videos) | 8 | 4 | 2 |
| 8- Diagnostic and Therapeutic Challenges. (slid and videos) | 8 | 4 | 2 |
| 9- Mechanical and Chemical Restraint of Wildlife. (slid and videos) | 8 | 4 | 2 |
| 10- Invertebrate Perspectives. (slid and videos) | 4 | 2 | 1 |
| 11- Amphibian Medicine. (slid and videos) | 4 | 2 | 1 |
| 12- Reptile Medicine. (slid and videos) | 8 | 4 | 2 |
| 13-Marine Mammal Medicine (An Introduction to the Care and Medicine of Cetaceans and Pinnipeds). (slid and videos) | 4 | 2 | 1 |
| 14-Ungulate Medicine. (slid and videos) | 8 | 4 | 2 |
| 15-Carnivore Medicine. (slid and videos) | 8 | 4 | 2 |
| 16-Ferret Medicine. (slid and videos) | 4 | 2 | 1 |
| 17-Rodent and Small Mammal Medicine. (slid and videos) | 8 | 4 | 2 |
| 18-Primate Medicine. (slid and videos) | 8 | 4 | 2 |

## 4– TEACHING AND LEARNING METHODS

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Wild animal Medicine, Joshi, B.P.
- General Zoology: laboratory guide, Charles F. Lytle.
- Concepts in Zoology, Harris, C. Leon
- Veterinary applied pharmacology and therapeutics, Brander, G.C.
- The living world, Johnson, George B.
- Animal physiology: Adaptation and Environment, Knut Schmidt-Nielsen.
- Ferrets, rabbits and rodents.
- Anesthesia and analgesia in laboratory animals.
- Pollution in livestock production systems. I. Ap Dewi
- Conservation genetics.
- Atlas of diagnostic radiology of exotic pets.

6.4- Periodicals, Web Sites, … etc

- http://www.env.gov.bc.ca/wld/wldfact.html
- **http://www.wildlifedamagecontrol.net/animaldiseases.php**
- **http://www.aphis.usda.gov/wildlife_damage/nwrc/**
- **http://www.cdc.gov/healthypets/animals/wildlife.htm**
- **http://www.cdc.gov/healthypets/diseases/rabies.htm**
- **http://www.khake.com/page10.html**
- **http://wildlifedisease.nbii.gov/resources.jsp?section=Publications&pagemode=submit&start=40&showDetails=4159**
- **http://www.elsevier.com/wps/find/bookdescription.reviewers/712492/description#description**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 5-COURSE SPECIFICATION OF DISEASES OF PETS (DP)M/D 10A 05

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **DISEASES OF PETS (DP)**

**CODE:** **M/D 10A 05**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR (4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Diseases of Pets (DP).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Diseases of Pets (DP).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Diseases of Pets (DP).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Common conditions of pet rabbits include snuffles, hairballs, parasites, overgrown incisors, uterine infections or cancer, and sore hocks. | 8 | 4 | 2 |
| 2- Some common conditions of pet ferrets include diarrhea, distemper, human influenza, parasites, ringworm, and various types of cancer. | 8 | 4 | 2 |
| 3- Common conditions of pet rodents include respiratory diseases, anorexia and lethargy, overgrown | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| teeth, and tumors. | | | |
| 4- Common diseases of pet mice including respiratory infections, cancer, and lice or mites. | 8 | 4 | 2 |
| 5- Poodle,These dogs are known to get spinal deformities, short limbs, skin allergies, nervous system defects, epilepsy, and collapsed trachea. | 8 | 4 | 2 |
| 6- German Shepherd,These dogs are known to acquire epilepsy, kidney disease, cataracts, hemophilia, and bladder stones. | 8 | 4 | 2 |
| 7- Collie,These dogs are known to get epilepsy, deafness, hernias, and hemophilia. | 8 | 4 | 2 |
| 8- Cocker Spaniel,These dogs are known to get hemophilia, spinal deformities, kidney problems, and cataracts. | 8 | 4 | 2 |
| 9- Labrador Retriever<br>These dogs commonly get bladder stones, cataracts, and hemophilia. | 4 | 2 | 1 |
| 10- Dachshund<br>These dogs are known to acquire diabetes, spinal deformities, bladder stones, and diabetes. | 4 | 2 | 1 |
| 11- Common conditions of pet iguanas include metabolic bone disease, infectious stomatitis (mouth rot), parasites, abscesses, and hypervitaminosis D. | 4 | 2 | 1 |
| 12- Cat diseases | 8 | 4 | 2 |
| 13-Presenting complaints in dogs and cats. | 4 | 2 | 1 |
| 14-Physical abnormalities in dogs and cats. | 8 | 4 | 2 |
| 15-Laboratory abnormalities in dogs and cats. | 8 | 4 | 2 |
| 16-Organ system in dogs and cats. | 4 | 2 | 1 |
| 17- Non-Infectious Dog Diseases. | 8 | 4 | 2 |
| 18- Frequently Asked Questions about Pets and Zoonotic Diseases. | 8 | 4 | 2 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Common conditions of pet rabbits include snuffles, hairballs, parasites, overgrown incisors, uterine infections or cancer, and sore hocks. | 8 | 4 | 2 |
| 2- Some common conditions of pet ferrets include diarrhea, distemper, human influenza, parasites, ringworm, and various types of cancer. | 8 | 4 | 2 |
| 3- Common conditions of pet rodents include respiratory diseases, anorexia and lethargy, overgrown teeth, and tumors. | 8 | 4 | 2 |
| 4- Common diseases of pet mice including respiratory infections, cancer, and lice or mites. | 8 | 4 | 2 |
| 5- Poodle,THESE DOGS ARE KNOWN TO GET SPINAL DEFORMITIES, SHORT LIMBS, SKIN ALLERGIES, NERVOUS SYSTEM DEFECTS, EPILEPSY, AND COLLAPSED TRACHEA. | 8 | 4 | 2 |
| 6- German Shepherd,THESE DOGS ARE KNOWN TO ACQUIRE EPILEPSY, KIDNEY DISEASE, CATARACTS, HEMOPHILIA, AND BLADDER STONES. | 8 | 4 | 2 |
| 7- Collie,THESE DOGS ARE KNOWN TO GET EPILEPSY, DEAFNESS, HERNIAS, AND HEMOPHILIA. | 8 | 4 | 2 |
| 8- Cocker Spaniel,THESE DOGS ARE KNOWN TO GET HEMOPHILIA, SPINAL DEFORMITIES, KIDNEY PROBLEMS, AND CATARACTS. | 8 | 4 | 2 |
| 9- Labrador Retriever,THESE DOGS COMMONLY GET BLADDER STONES, CATARACTS, AND HEMOPHILIA. | 4 | 2 | 1 |
| 10- Dachshund,THESE DOGS ARE KNOWN TO ACQUIRE DIABETES, SPINAL DEFORMITIES, BLADDER STONES, AND DIABETES. | 4 | 2 | 1 |
| 11- Common conditions of pet iguanas include metabolic bone disease, infectious stomatitis (mouth rot), parasites, abscesses, and hypervitaminosis D. | 4 | 2 | 1 |

| | | | |
|---|---|---|---|
| 12- Cat diseases | 8 | 4 | 2 |
| 13-Presenting complaints in dogs and cats. | 4 | 2 | 1 |
| 14-Physical abnormalities in dogs and cats. | 8 | 4 | 2 |
| 15-Laboratory abnormalities in dogs and cats. | 8 | 4 | 2 |
| 16-Organ system in dogs and cats. | 4 | 2 | 1 |
| 17- Non-Infectious Dog Diseases. | 8 | 4 | 2 |
| 18- Frequently Asked Questions about Pets and Zoonotic Diseases. | 8 | 4 | 2 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Canine Internal Medicine, Edward Hall, Kate Murphy and Peter Darke (2003)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Wild animal Medicine, Joshi, B.P.
- General Zoology: laboratory guide, Charles F. Lytle.
- Concepts in Zoology, Harris, C. Leon
- Veterinary applied pharmacology and therapeutics, Brander, G.C.
- The living world, Johnson, George B.
- Animal physiology: Adaptation and Environment, Knut Schmidt-Nielsen.

- Ferrets, rabbits and rodents.
- Anesthesia and analgesia in laboratory animals.
- Pollution in livestock production systems. I. Ap Dewi
- Conservation genetics.
- Atlas of diagnostic radiology of exotic pets.

6.4- Periodicals, Web Sites, … etc

- http://www.petconnect.us/article/rabbithealth/commondiseases.htm
- **http://www.ehow.com/video_4439383_common-mouse-diseases-pet-mice.html**
- **http://www.vetinfo.com/non-infectious-dog-diseases.html**
- **http://www.avma.org/animal_health/pets_ZD_faq.asp**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 6-COURSE SPECIFICATION OF DISEASES OF METABOLIC DISTURBANCES (DMD)M/D 10A 06

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **DISEASES OF METABOLIC DISTURBANCES (DMD)**

**CODE:** **M/D 10A 06**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS (MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Diseases of Metabolic Disturbances (DMD).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Diseases of Metabolic Disturbances (DMD).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Diseases of Metabolic Disturbances (DMD).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### b) Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

c) PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

d) GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Metabolic Disorders Introduction | 8 | 4 | 2 |
| 2- Congenital Erythropoietic Porphyria. | 8 | 4 | 2 |
| 3- Disorders of Calcium Metabolism. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 4- Disorders of Magnesium Metabolism. | 8 | 4 | 2 |
| 5- Disorders of Phosphorus Metabolism. | 8 | 4 | 2 |
| 6- Fatigue and Exercise. | 8 | 4 | 2 |
| 7- Fever of Unknown Origin. | 8 | 4 | 2 |
| 8- Urolithiasis. | 8 | 4 | 2 |
| 9- Disorders of water metabolism | 8 | 4 | 2 |
| 10- Disorders of Electrolyte metabolism | 8 | 4 | 2 |
| 11- Disorders of energy metabolism. | 8 | 4 | 2 |
| 12- Nitrogen or protein metabolism | 8 | 4 | 2 |
| 13-Malignant Hyperthermia. | 4 | 2 | 1 |
| 14-Metabolic Disorders in dogs and cats.Hyperthyroidism. Hypothyroidism. Diabetes. | 8 | 4 | 2 |
| 15-Laboratory diagnosis of metabolic disorders. | 8 | 4 | 2 |
| 16-Prevention and control of Metabolic disorders. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Metabolic Disorders Introduction | 8 | 4 | 2 |
| 2- Congenital Erythropoietic Porphyria. | 8 | 4 | 2 |
| 3- Disorders of Calcium Metabolism. | 8 | 4 | 2 |
| 4- Disorders of Magnesium Metabolism. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 5- Disorders of Phosphorus Metabolism. | 8 | 4 | 2 |
| 6- Fatigue and Exercise. | 8 | 4 | 2 |
| 7- Fever of Unknown Origin. | 8 | 4 | 2 |
| 8- Urolithiasis. | 8 | 4 | 2 |
| 9- Disorders of water metabolism | 8 | 4 | 2 |
| 10- Disorders of Electrolyte metabolism | 8 | 4 | 2 |
| 11- Disorders of energy metabolism. | 8 | 4 | 2 |
| 12- Nitrogen or protein metabolism | 8 | 4 | 2 |
| 13-Malignant Hyperthermia. | 4 | 2 | 1 |
| 14-Metabolic Disorders in dogs and cats.Hyperthyroidism. Hypothyroidism. Diabetes. | 8 | 4 | 2 |
| 15-Laboratory diagnosis of metabolic disorders. | 8 | 4 | 2 |
| 16-Prevention and control of Metabolic disorders. | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).

- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Veterinary applied pharmacology and therapeutics, Brander, G.C.
- Animal physiology: Adaptation and Environment, Knut Schmidt-Nielsen.

6.4- Periodicals, Web Sites, … etc

- http://www.merckvetmanual.com/mvm/index.jsp?cfile=htm/bc/100604.htm
- **http://www.nativeremedies.com/petalive/ailment/cats-dogs-slow-metabolism-remedies.html**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 7-COURSE SPECIFICATION OF DISEASES OF NUTRITIONAL DEFICIENCY (DND)M/D 10A 07

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **DISEASES OF NUTRITIONAL DEFICIENCY (DND)**

**CODE:** **M/D 10A 07**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Diseases of Nutritional deficiency (DND).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Diseases of Nutritional deficiency (DND).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Diseases of Nutritional deficiency (DND).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Nutritional Disorders Introduction | 8 | 4 | 2 |
| 2- Trace Element Deficiencies in cattle. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 3- Vitamin Deficiencies in cattle. | 8 | 4 | 2 |
| 4- Congenital Disorders. | 8 | 4 | 2 |
| 5- Disorders associated with toxic factors. | 8 | 4 | 2 |
| 6- Interactions, Infertility, Bone disorders, Indigetion, Ageing and Liongevity. | 8 | 4 | 2 |
| 7- Trace Element Deficiencies in Equine. | 8 | 4 | 2 |
| 8- Vitamin Deficiencies in Equine. | 8 | 4 | 2 |
| 9- Trace Element Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 10- Vitamin Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 11- Trace Element Deficiencies in dog and cat. | 8 | 4 | 2 |
| 12- Vitamin Deficiencies in dog and cat. | 8 | 4 | 2 |
| 13-Trace Element Deficiencies in swine. | 4 | 2 | 1 |
| 14-Vitamin Deficiencies in swine. | 8 | 4 | 2 |
| 15-Laboratory diagnosis of Nutritional disorders. | 8 | 4 | 2 |
| 16-Prevention and control of Nutritional disorders. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Nutritional Disorders Introduction | 8 | 4 | 2 |
| 2- Trace Element Deficiencies in cattle. | 8 | 4 | 2 |
| 3- Vitamin Deficiencies in cattle. | 8 | 4 | 2 |
| 4- Congenital Disorders. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 5- Disorders associated with toxic factors. | 8 | 4 | 2 |
| 6- Interactions, Infertility, Bone disorders, Indigestion, Ageing and Longevity. | 8 | 4 | 2 |
| 7- Trace Element Deficiencies in Equine. | 8 | 4 | 2 |
| 8- Vitamin Deficiencies in Equine. | 8 | 4 | 2 |
| 9- Trace Element Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 10- Vitamin Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 11- Trace Element Deficiencies in dog and cat. | 8 | 4 | 2 |
| 12- Vitamin Deficiencies in dog and cat. | 8 | 4 | 2 |
| 13-Trace Element Deficiencies in swine. | 4 | 2 | 1 |
| 14-Vitamin Deficiencies in swine. | 8 | 4 | 2 |
| 15-Laboratory diagnosis of Nutritional disorders. | 8 | 4 | 2 |
| 16-Prevention and control of Nutritional disorders. | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Bovine Medicine, Andrews, Blowey and Eddy,(1992)
- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.4- Periodicals, Web Sites, … etc

- http://www.merckvetmanual.com/mvm/index.jsp?cfile=htm/bc/100712.htm
- **http://goatconnection.com/articles/publish/article_74.shtml**
- **http://www.omafra.gov.on.ca/english/livestock/goat/facts/menzies.htm**
- **http://www.fao.org/docrep/009/ah221e/AH221E05.htm**
- **http://www.thebeefsite.com/articles/1926/beef-cattle-nutritional-disorders**
- **http://purduephil.wordpress.com/2009/11/20/beef-cattle-nutritional-disorders/**
- **http://www.alafarmnews.com/index.php?option=com_content&view=article&id=1910:feeding-facts&catid=7:feeding-facts**
- **http://www.extension.org/pages/Therapeutic_Nutrition_for_Dairy_Cattle**
- **http://www.ka-hi.com/equine-specialty.php**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 8-COURSE SPECIFICATION OF DISEASES OF SKIN (DS)M/D 10A 08

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE*

PHD OF *VETERINARY SCIENCE*

*POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **DISEASES OF SKIN (DS)**

**CODE:** **M/D 10A 08**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Diseases of Skin (DS).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Diseases of Skin (DS).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Diseases of Skin (DS).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

### C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

### D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction skin., structure and physiology. | 8 | 4 | 2 |
| 2- Genetic disorders of Skin in domestic animals. | 8 | 4 | 2 |
| 3- Vitamin Deficiencies affections of skin in cattle. | 8 | 4 | 2 |
| 4- Skin diseases of newly born animals. | 8 | 4 | 2 |
| 5- Skin diseases associated with toxic factors. | 8 | 4 | 2 |
| 6- Physical causes of skin diseases. | 8 | 4 | 2 |
| 7- Skin diseases due to Trace Element Deficiencies in Equine. | 8 | 4 | 2 |
| 8- Skin diseases due to Vitamins Deficiencies in Equine. | 8 | 4 | 2 |
| 9- Skin diseases due to Trace Element Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 10- Skin diseases due to Vitamins Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 11- Skin diseases due to Trace Element Deficiencies in dog and cat. | 8 | 4 | 2 |
| 12- Skin diseases due to Vitamins Deficiencies in dog and cat. | 8 | 4 | 2 |
| 13- Skin diseases due to Trace Element Deficiencies in swine. | 4 | 2 | 1 |
| 14- Skin diseases due to Vitamins Deficiencies in swine. | 8 | 4 | 2 |
| 15-Clinical and Laboratory diagnosis of Skin diseases. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 16-Prevention and control of Skin diseases. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction skin., structure and physiology. | 8 | 4 | 2 |
| 2- Genetic disorders of Skin in domestic animals. | 8 | 4 | 2 |
| 3- Vitamin Deficiencies affections of skin in cattle. | 8 | 4 | 2 |
| 4- Skin diseases of newly born animals. | 8 | 4 | 2 |
| 5- Skin diseases associated with toxic factors. | 8 | 4 | 2 |
| 6- Physical causes of skin diseases. | 8 | 4 | 2 |
| 7- Skin diseases due to Trace Element Deficiencies in Equine. | 8 | 4 | 2 |
| 8- Skin diseases due to Vitamins Deficiencies in Equine. | 8 | 4 | 2 |
| 9- Skin diseases due to Trace Element Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 10- Skin diseases due to Vitamins Deficiencies in sheep and goat. | 8 | 4 | 2 |
| 11- Skin diseases due to Trace Element Deficiencies in dog and cat. | 8 | 4 | 2 |
| 12- Skin diseases due to Vitamins Deficiencies in dog and cat. | 8 | 4 | 2 |
| 13- Skin diseases due to Trace Element Deficiencies in swine. | 4 | 2 | 1 |
| 14- Skin diseases due to Vitamins Deficiencies in swine. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 15-Clinical and Laboratory diagnosis of Skin diseases. | 8 | 4 | 2 |
| 16-Prevention and control of Skin diseases. | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Bovine Medicine, Andrews, Blowey and Eddy,(1992)
- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.4- Periodicals, Web Sites, … etc

- http://www.dermatologyforanimals.com/referringveterinarians.html
- **http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0781741483,descCd-tableOfContents.html**
- **http://www.elsevier.com/wps/find/bookbibliographicinfo.cws_home/691819/description**
- **http://www.vin.com/proceedings/Proceedings.plx?CID=WSAVA2008&PID=23961&O=Generic**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 9-COURSE SPECIFICATION OF DISEASES OF NEWLY BORNE ANIMALS (DNBA)M/D 10A 09

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **DISEASES OF NEWLY BORNE ANIMALS (DNBA)**
**CODE:** **M/D 10A 09**
**CREDIT HOURS:**
**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***
**TUTORIAL:**
**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***
**TOTAL:** ***8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Diseases of Newly Borne Animals (DNBA).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Diseases of Newly Borne Animals (DNBA).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Diseases of Newly Borne Animals (DNBA).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction, Importance of colostrums. and Immunity | 8 | 4 | 2 |
| 2- Congenital conditions. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 3- Trace Element Deficiencies in Calf . | 8 | 4 | 2 |
| 4-Septicemia in newborn animals. | 8 | 4 | 2 |
| 5-Diarrhea in newborn animals. | 8 | 4 | 2 |
| 6-Pneumonia and respiratory diseases in newborn animals. | 8 | 4 | 2 |
| 7- diseases due to Trace Element Deficiencies foal. | 8 | 4 | 2 |
| 8- diseases due to Vitamins Deficiencies foal. | 8 | 4 | 2 |
| 9- diseases due to Trace Element Deficiencies in newborn sheep and goat. | 8 | 4 | 2 |
| 10- diseases due to Vitamins Deficiencies in newborn sheep and goat. | 8 | 4 | 2 |
| 11- diseases due to Trace Element Deficiencies in dog and cat. | 8 | 4 | 2 |
| 12- diseases due to Vitamins Deficiencies in newborn dog and cat. | 8 | 4 | 2 |
| 13- diseases due to Trace Element Deficiencies in newborn swine. | 4 | 2 | 1 |
| 14- diseases due to Vitamins Deficiencies in newborn swine. | 8 | 4 | 2 |
| 15-Clinical and Laboratory diagnosis of newborn diseases. | 8 | 4 | 2 |
| 16-Prevention and control of newborn diseases. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction, Importance of colostrums. and Immunity | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 2- Congenital conditions. | 8 | 4 | 2 |
| 3- Trace Element Deficiencies in Calf . | 8 | 4 | 2 |
| 4-Septicemia in newborn animals. | 8 | 4 | 2 |
| 5-Diarrhea in newborn animals. | 8 | 4 | 2 |
| 6-Pneumonia and respiratory diseases in newborn animals. | 8 | 4 | 2 |
| 7- diseases due to Trace Element Deficiencies foal. | 8 | 4 | 2 |
| 8- diseases due to Vitamins Deficiencies foal. | 8 | 4 | 2 |
| 9- diseases due to Trace Element Deficiencies in newborn sheep and goat. | 8 | 4 | 2 |
| 10- diseases due to Vitamins Deficiencies in newborn sheep and goat. | 8 | 4 | 2 |
| 11- diseases due to Trace Element Deficiencies in dog and cat. | 8 | 4 | 2 |
| 12- diseases due to Vitamins Deficiencies in newborn dog and cat. | 8 | 4 | 2 |
| 13- diseases due to Trace Element Deficiencies in newborn swine. | 4 | 2 | 1 |
| 14- diseases due to Vitamins Deficiencies in newborn swine. | 8 | 4 | 2 |
| 15-Clinical and Laboratory diagnosis of newborn diseases. | 8 | 4 | 2 |
| 16-Prevention and control of newborn diseases. | 4 | 2 | 1 |

## 4– TEACHING AND LEARNING METHODS

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Bovine Medicine, Andrews, Blowey and Eddy,(1992)
- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.4- Periodicals, Web Sites, … etc

- http://www.extension.org/pages/Calf_Diseases_and_Prevention
- **http://www.extension.org/pages/Calf_Diseases_and_Prevention**
- **http://www.farmandranchbiosecurity.com/dictionary_cow_calf.htm**
- **https://profreg.medscape.com/px/getlogin.do?urlCache=aHR0cDovL3d3dy5tZWRzY2FwZS5jb20vbWVkbGluZS9hYnN0cmFjdC84MzQ2NTI2**
- **http://www.nadis.org.uk/DiseasesSheep/SurvivalNewbornLambs/Survival%20of%20Newborn%20Lambs.htm**
- **http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1405115467,descCd-tableOfContents.html**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 10-COURSE SPECIFICATION OF DISEASES OF BLOOD AND FLUIDS BALANCE (DBFB) M/D 10A 10

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **DISEASES OF BLOOD AND FLUIDS BALANCE (DBFB)**

**CODE:** **M/D 10A 10**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a) **Good application of principals and methods of Scientific research and use its different methods.**

b) **Application of the analytical method in the field of** Diseases of Blood and Fluids Balance (DBFB).

c) **Application of the specific knowledge in relation with other knowledge in the profession.**

d) **Discover the actual problems and the recent visions in the field of** Diseases of Blood and Fluids Balance (DBFB).

e) **Defining the professional problems and finding solutions.**

f) **Wide suitable special professional skills and using the suitable techniques in the field of** Diseases of Blood and Fluids Balance (DBFB).

g) **Active communication and the ability to lead work team.**

h) **Discussion making in the profession.**

i) **Using the available sources in order to obtain and keeping the highest values.**

j) **Awareness in society development and environmental preservation national and international**

k) **Transparency correctness and following the professional ethics.**

l) **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction, | 8 | 4 | 2 |
| 2- Congenital conditions. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 3- Anemia . | 8 | 4 | 2 |
| 4- Examining a Mammalian Blood Smear. | 8 | 4 | 2 |
| 5-Immune disturbances in blood . | 8 | 4 | 2 |
| 6-Tumors of blood cells . | 8 | 4 | 2 |
| 7- Lymphatic diseases. | 8 | 4 | 2 |
| 8- Diseases of hemopoietic system. | 8 | 4 | 2 |
| 9- Diseases of blood platlets. | 8 | 4 | 2 |
| 10- Disorders of Body fluid losses. | 8 | 4 | 2 |
| 11- diseases due to Electrolyte imbalance. | 8 | 4 | 2 |
| 12- Kidney Disorders. | 8 | 4 | 2 |
| 13- Blood parasites. | 4 | 2 | 1 |
| 14- Blood and body fluid sampling. | 8 | 4 | 2 |
| 15-Clinical and Laboratory diagnosis of blood and fluid imbalance diseases. | 8 | 4 | 2 |
| 16-Prevention and control of blood and body fluid disorders. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction, | 8 | 4 | 2 |
| 2- Congenital conditions. | 8 | 4 | 2 |
| 3- Anemia . | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 4- Examining a Mammalian Blood Smear. | 8 | 4 | 2 |
| 5-Immune disturbances in blood . | 8 | 4 | 2 |
| 6-Tumors of blood cells . | 8 | 4 | 2 |
| 7- Lymphatic diseases. | 8 | 4 | 2 |
| 8- Diseases of hemopoietic system. | 8 | 4 | 2 |
| 9- Diseases of blood platlets. | 8 | 4 | 2 |
| 10- Disorders of Body fluid losses. | 8 | 4 | 2 |
| 11- diseases due to Electrolyte imbalance. | 8 | 4 | 2 |
| 12- Kidney Disorders. | 8 | 4 | 2 |
| 13- Blood parasites. | 4 | 2 | 1 |
| 14- Blood and body fluid sampling. | 8 | 4 | 2 |
| 15-Clinical and Laboratory diagnosis of blood and fluid imbalance diseases. | 8 | 4 | 2 |
| 16-Prevention and control of blood and body fluid disorders. | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Bovine Medicine, Andrews, Blowey and Eddy,(1992)
- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.4- Periodicals, Web Sites, … etc

- http://bloodindex.org/blood_diseases.php
- **http://www.klinikundforschung.de/sup/8_2/Ikehara.htm**
- **http://www.healthline.com/galecontent/fluid-balance**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

10-Dept of Animal Medicine: B) Subject on: Infectious Diseases.

| No | Subject |
|---|---|
| M/D 10B 01 | Cattle Infectious Diseases (CID) |
| M/D 10B 02 | Specific Courses in Infectious Diseases of Sheep and Goat(SCIDSG) |
| M/D 10B 03 | Infectious Diseases of Camel (IDC) |
| M/D 10B 04 | Infectious Diseases of Equine (IDE) |
| M/D 10B 05 | Infectious Diseases of Pets (IDP) |
| M/D 10B 06 | Infectious Diseases of Lab Animals (IDLA) |
| M/D 10B 07 | Infectious Diseases of Udder and Calves (IDUC) |
| M/D 10B 08 | Infectious Diseases of Buffalo (IDB) |
| M/D 10B 09 | Infectious Diseases of Wild Animals (IDWA) |
| M/D 10B 10 | Epidemiology of Infectious Diseases (EID) |

# 1-COURSE SPECIFICATION OF CATTLE INFECTIOUS DISEASES (CID) M/D10B 01

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** *Faculty of Veterinary Medicine*

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

| | |
|---|---|
| **TITLE:** | **CATTLE INFECTIOUS DISEASES (CID)** |
| **CODE:** | **M/D 10B 01** |
| **CREDIT HOURS:** | |
| **LECTURE:** | ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS*** |
| **TUTORIAL:** | |
| **PRACTICAL:** | ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS*** |
| **TOTAL:** | ***8 HRS(MAIN) OR(4SUB) / WEEK FOR 30 WEEKS*** |

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Cattle Infectious Diseases (CID).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Cattle Infectious Diseases (CID).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Cattle Infectious Diseases (CID).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

### C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

### D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction to Infectious Diseases of Cattle. | 8 | 4 | 2 |
| 2-General Identification and manifestation of Infectious diseases of Cattle. | 8 | 4 | 2 |
| 3-Infectious diseases of newly born of Cattle. | 12 | 6 | 3 |
| 4-Infectious Diseases of Digestive system in Cattle. | 16 | 8 | 4 |
| 5- Infectious Diseases of Respiratory system in Cattle. | 8 | 4 | 2 |
| 6- Infectious Diseases of Cardiovascular system in Cattle. | 8 | 4 | 2 |
| 7- Infectious Diseases of Skin in Cattle. | 8 | 4 | 2 |
| 8- Infectious Diseases of Urinary system in Cattle. | 8 | 4 | 2 |
| 9- Infectious Diseases of Musculoskeletal system in Cattle. | 8 | 4 | 2 |
| 10- Infectious Diseases of special organs in Cattle. | 8 | 4 | 2 |
| 11-General consideration in Treatments of Infectious diseases in Cattle. | 8 | 4 | 2 |
| 12- Vaccination and Immunization in Cattle. | 12 | 6 | 3 |
| 13-Epidemiology of Infectious diseases in Cattle. | 8 | 4 | 2 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction to Infectious Diseases of Cattle.(Cases and Slide Show) | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 2-General Identification and manifestation of Infectious diseases of Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 3-Infectious diseases of newly born of Cattle. .(Cases and Slide Show) | 12 | 6 | 3 |
| 4-Infectious Diseases of Digestive system in Cattle. .(Cases and Slide Show) | 16 | 8 | 4 |
| 5- Infectious Diseases of Respiratory system in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 6- Infectious Diseases of Cardiovascular system in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 7- Infectious Diseases of Skin in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 8- Infectious Diseases of Urinary system in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 9- Infectious Diseases of Musculoskeletal system in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 10- Infectious Diseases of special organs in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 11-General consideration in Treatments of Infectious diseases in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |
| 12- Vaccination and Immunization in Cattle. .(Cases and Slide Show) | 12 | 6 | 3 |
| 13-Epidemiology of Infectious diseases in Cattle. .(Cases and Slide Show) | 8 | 4 | 2 |

## 4– TEACHING AND LEARNING METHODS

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Self performing of lab tests.**

**4.4- Microscopes, hematology apparatuses and equipments.**

## 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 (15th week of after registration) |
| Assessment 2: Practical examination. | Week (30th week of after registration) |
| Assessment 3: Final-term Examination. | (After 12 months from the registration time) |
| Assessment 4: Oral examination. | After the final term examination |

## Weighting of Assessments:

| | |
|---|---|
| Mid-Term examination | 15 % |
| Practical Examination | 20 % |
| Final-term Examination | 50 % |
| Oral Examination. | 15 % |
| Total | 100% |

Any formative only assessments

- ❖ Other types of assessment (Case report, essays)

## 6- List of References

6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students

- Notes on Animal Infectious Diseases

6.2- Essential Books (Text Books)

- Bovine Medicine, Andrews, Blowey, Boyd and Eddy, Blackwell scientific puplications,1992.
- An Introduction to Microbiology (Tauro,P)
- Animal Parasitology Smyth, J.D.).
- Veterinary Immunology (Tizard, Ian R.).
- Microbiology (perscott, Lansing M.).

6.3- Recommended Books

In our Faculty Library:

- General Microbiology (Schlegel, Hans Guenther).
- Essential Immunology (Roitt, Ivan m.).
- Pathology of Domestic animals.
- Bovine Medicine.
- Laboratory experiments in Microbiology, Johnson, Ted R.
- Color Atlas of small animal dermatology )Kummel, Barbara A).
- Handbook of small animal dermatology (Moriollo, Karen A.).
- Clinical virology.
- Medical and Veterinary Entmology (D.S.Kettle)

6.4- Periodicals, Web Sites, … etc

- http://www.essortment.com/all/diseasesincatt_riha.htm
- http://extension.usu.edu/files/publications/factsheet/AH_Beef_27.pdf
- http://www.texascattleraisers.org/issues/2006/0306/howeffectivevaccine.asp
- http://cattletoday.info/ibr.htm
- http://www2.warwick.ac.uk/fac/sci/bio/res/populations/riginfo/research/livestock/britishcattle/

**7- Facilities Required for Teaching and Learning**

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. / Adel Elsayed Ahmed Prof. Dr. M. Nour. Ismail

# 2-COURSE SPECIFICATION OF SPECIFIC COURSES IN INFECTIOUS DISEASES OF SHEEP AND GOAT (SCIDSG) M/D 10B 02

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE*

*POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** *Faculty of Veterinary Medicine*

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **SPECIFIC COURSES IN INFECTIOUS DISEASES OF SHEEP AND GOAT (SCIDSG)**

**CODE:** **M/D 10B 02**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS(MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR(4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Specific Courses in Infectious Diseases of Sheep and Goat (SCIDSG).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Specific Courses in Infectious Diseases of Sheep and Goat (SCIDSG).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Specific Courses in Infectious Diseases of Sheep and Goat (SCIDSG).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction and Congenital conditions. | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born animal. | 8 | 2 | 2 |

| | | | |
|---|---|---|---|
| 3-Respiratory diseases and other Problems of Newly Born **sheep and goat**. | 8 | 2 | 2 |
| 4-Endo and Exoparasites of Newly Born **sheep and goat**. | 8 | 2 | 2 |
| 5- Diseases of Newly Born **sheep and goat**. | 8 | 2 | 2 |
| 6-Mastitis in **sheep and goat**. | 8 | 2 | 2 |
| 7-Viral Diseases in adult **sheep and goat**. | 8 | 2 | 2 |
| 8-Bacterial Conditions in adult **sheep and goat**. | 8 | 2 | 2 |
| 9-parasitic diseases of in adult **sheep and goat**. | 8 | 2 | 2 |
| 10-Diseases of digestive system in adult **sheep and goat**. | 8 | 2 | 2 |
| 11-Diseases of Respiratory system in adult **sheep and goat**. | 8 | 2 | 2 |
| 12-Skin Diseases in adult **sheep and goat**. | 4 | 2 | 1 |
| 13-Neurological Disorders in adult **sheep and goat**. | 8 | 2 | 2 |
| 14-Ocular Diseases in adult **sheep and goat**. | 4 | 2 | 1 |
| 15-Vaccination and Epidemiology in **sheep and goat**. | 8 | 2 | 2 |
| 16-Anthelmintics in **sheep and goat**. | 4 | 2 | 1 |
| 17-Antimicrobial agents in **sheep and goat**. | 4 | 2 | 1 |
| 18- Alternative Medicine. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction and Congenital conditions.(Cases and slide show). | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born animal. (Cases and slide show). | 8 | 2 | 2 |
| 3-Respiratory diseases and other Problems of Newly Born **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |

| | | | |
|---|---|---|---|
| 4-Endo and Exoparasites of Newly Born **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 5- Diseases of Newly Born **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 6-Mastitis in **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 7-Viral Diseases in adult **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 8-Bacterial Conditions in adult **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 9-parasitic diseases of in adult **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 10-Diseases of digestive system in adult **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 11-Diseases of Respiratory system in adult **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 12-Skin Diseases in adult **sheep and goat**. (Cases and slide show). | 4 | 2 | 1 |
| 13-Neurological Disorders in adult **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 14-Ocular Diseases in adult **sheep and goat**. (Cases and slide show). | 4 | 2 | 1 |
| 15-Vaccination and Epidemiology in **sheep and goat**. (Cases and slide show). | 8 | 2 | 2 |
| 16-Anthelmintics in **sheep and goat**. (Cases and slide show). | 4 | 2 | 1 |
| 17-Antimicrobial agents in **sheep and goat**. (Cases and slide show). | 4 | 2 | 1 |
| 18- Alternative Medicine. (Cases and slide show). | 4 | 2 | 1 |

## 4– TEACHING AND LEARNING METHODS

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Writing Net researches on the Diseases of Ruminants.**

**4.4- Field studies and clinical cases.**

## 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 (15th week of after registration) |
| Assessment 2: Practical examination. | Week (30th week of after registration) |
| Assessment 3: Final-term Examination. | (After 12 months from the registration time) |
| Assessment 4: Oral examination. | After the final term examination |

## Weighting of Assessments:

| | |
|---|---|
| Mid-Term examination | 15 % |
| Practical Examination | 20 % |
| Final-term Examination | 50 % |
| Oral Examination. | 15 % |
| Total | 100% |

Any formative only assessments

- ❖ Other types of assessment (Case report, essays)

## 6- List of References

6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students
- Notes on Veterinary hematological laboratory diagnostics

6.2- Essential Books (Text Books)

- Bovine Medicine (1992), A.H. Andrews and R.W. Blowey, H.Boyed and R.G.Eddy.
- Small Animal Internal Medicine, Darcy Shaw, Sherri Ihle (1997).
- Large Animal Internal Medicine, Timothy H., Ogilvie (1998).

6.3- Recommended Books

In our Faculty Library:

- Pathology of Domestic animals.
- Microbiology, Prescott, Lansing M.
- Color atlas and text book of diagnostic microbiology, Koneman, elmer W.
- Clinical Virology, Leland, Diane Schultze.
- Medical and Veterinary Entmology, D.S.Kettle.

6.4- Periodicals, Web Sites, … etc

- http://en.wikipedia.org/wiki/Category:Sheep_and_goats_diseases
- American Association of Small Ruminant Practitioners
- Food Animal Production Medicine
- Infectious Disease In Food Animals
- **http://digital.library.unt.edu/ark:/67531/metadc1723/**
- **http://www.provet.co.uk/health/diseases/sheepvaccines.htm**
- **http://www.fao.org/Wairdocs/ILRI/x5472B/x5472b0o.htm**

**7- Facilities Required for Teaching and Learning:**

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 3-Course Specification of Infectious Diseases of Camel (IDC) M/D 10B 03

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

Title: **Infectious Diseases of Camel (IDC)**

Code: **M/D 10B 03**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS (MAIN) OR(4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Infectious Diseases of Camel (IDC).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Infectious Diseases of Camel (IDC).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Infectious Diseases of Camel (IDC).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

## C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

## D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction and Congenital conditions. | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born **Camel**. | 8 | 4 | 2 |
| 3-Respiratory diseases and other Problems of Newly Born Equine. | 8 | 4 | 2 |
| 4-Endo and Exoparasites of Newly Born **Camel**. | 8 | 4 | 2 |
| 5- Diseases of Newly Born **Camel**. | 8 | 4 | 2 |
| 6-Hepatobiliary diseases of **Camel**. | 8 | 4 | 2 |
| 7-Viral Diseases in adult Equine. | 8 | 4 | 2 |
| 8-Bacterial Conditions in adult **Camel**. | 8 | 4 | 2 |
| 9-Metabolic problems in adult **Camel**. | 8 | 4 | 2 |
| 10-Diseases of **Camel** Gastrointestinal tract. | 8 | 4 | 2 |
| 11- Respiratory Conditions in adult **Camel**. | 8 | 4 | 2 |
| 12-Skin conditions in adult **Camel**. | 4 | 2 | 1 |
| 13-Neurological Disorders in adult **Camel**. | 8 | 4 | 2 |
| 14-Ocular Diseases in adult **Camel**. | 4 | 2 | 1 |
| 15-Vaccination and Epidemiology in **Camel** | 8 | 4 | 2 |
| 16-Anthelmintics in **Camel**. | 4 | 2 | 1 |
| 17-Antimicrobial agents used in **Camel** . | 4 | 2 | 1 |
| 18- Alternative and traditional Medicine in **Camel** . | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction and Congenital conditions.(Cases and Slide show). | 4 | 2 | 1 |
| 2- Diarrhea of Newly Born **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 3-Respiratory diseases and other Problems of Newly Born Equine. (Cases and Slide show). | 8 | 4 | 2 |
| 4-Endo and Exoparasites of Newly Born **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 5- Diseases of Newly Born **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 6-Hepatobiliary diseases of **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 7-Viral Diseases in adult Equine. (Cases and Slide show). | 8 | 4 | 2 |
| 8-Bacterial Conditions in adult **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 9-Metabolic problems in adult **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 10-Diseases of **Camel** Gastrointestinal tract. (Cases and Slide show). | 8 | 4 | 2 |
| 11- Respiratory Conditions in adult **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 12-Skin conditions in adult **Camel**. (Cases and Slide show). | 4 | 2 | 1 |
| 13-Neurological Disorders in adult **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 14-Ocular Diseases in adult **Camel**. (Cases and Slide show). | 4 | 2 | 1 |
| 15-Vaccination and Epidemiology in **Camel**. (Cases and Slide show). | 8 | 4 | 2 |
| 16-Anthelmintics in **Camel**. (Cases and Slide show). | 4 | 2 | 1 |
| 17-Antimicrobial agents used in **Camel**. (Cases and Slide show). | 4 | 2 | 1 |
| 18- Alternative and traditional Medicine in **Camel**. (Cases and Slide show). | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Writing Net researches on the Diseases of Ruminants.**

**4.4- Field studies and clinical cases.**

## 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 (15$^{th}$ week of after registration) |
| Assessment 2: Practical examination. | Week (30$^{th}$ week of after registration) |
| Assessment 3: Final-term Examination. | (After 12 months from the registration time) |
| Assessment 4: Oral examination. | After the final term examination |

**Weighting of Assessments:**

| | |
|---|---|
| Mid-Term examination | 15 % |
| Practical Examination | 20 % |
| Final-term Examination | 50 % |
| Oral Examination. | 15 % |
| Total | 100% |

Any formative only assessments

- Other types of assessment (Case report, essays)

## 6- List of References

6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students
- Notes on Camel Medicine.

6.2- Essential Books (Text Books)

- Large Animal Medicine, (Timothy H. Ogilvie 1998)
- The Camel in Health and Disease, Andrew Higgins (1986)

6.3- Recommended Books

In our Faculty Library:

- Large Animal Medicine, (Timothy H. Ogilvie 1998)
- Clinical chemistry.
- Pathology of Domestic animals.
- Microbiology, Prescott, Lansing M.
- Color atlas and text book of diagnostic microbiology, Koneman, elmer W.
- Clinical Virology, Leland, Diane Schultze.
- Medical and Veterinary Entmology, D.S.Kettle.

6.4- Periodicals, Web Sites, … etc

- http://www.cabi.org/vetmedresource/default.aspx?site=149&page=425&LoadModule=Review&ReviewID=1180
- **http://findarticles.com/p/articles/mi_m0GVK/is_9_11/ai_n15397748/**
- **http://www.icinfo.org/pages/infectiousdiseases.html**
- **http://www.pastoralpeoples.org/camelmanual.htm**
- **http://www.boomerangbooks.com.au/Field-Manual-of-Camel-Diseases/Ilse-Kohler-Rollefson/book_9781853395031.htm**

## 7- Facilities Required for Teaching and Learning

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

## 4-COURSE SPECIFICATION OF INFECTIOUS DISEASES OF EQUINE (IDE ) M/D 10B 04

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

Title: Infectious Diseases of Equine (IDE)
Code: M/D 10B 04

**CREDIT HOURS:**
**LECTURE:** ***4 HRS (MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***
**TUTORIAL:**
**PRACTICAL:** ***4 HRS (MAIN) OR(2 SUB) / WEEK FOR 30 WEEKS***
**TOTAL:** ***8 HRS (MAIN) OR(4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Infectious Diseases of Equine (IDE).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Infectious Diseases of Equine (IDE).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Infectious Diseases of Equine (IDE).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction and Congenital conditions, Foaling (Mare and Foal Care). | 4 | 2 | 1 |
| 2- Diarrhea in Foal. | 8 | 4 | 2 |
| 3-Respiratory diseases and other Problems in Foal. | 8 | 4 | 2 |
| 4-Endo and Exoparasites in Foal. | 8 | 4 | 2 |
| 5-Parasites in Equine. | 8 | 4 | 2 |
| 6-Hepatobiliarh diseases of Equine. | 8 | 4 | 2 |
| 7-Viral Diseases in adult Equine. | 8 | 4 | 2 |
| 8-Bacterial Conditions in adult Equine. | 8 | 4 | 2 |
| 9- Infectious Diseases of the Equine Gastrointestinal tract. | 8 | 4 | 2 |
| 10-Infectious Diseases of the Equine Gastrointestinal tract. | 8 | 4 | 2 |
| 11- Infectious Respiratory diseases in adult Equine. | 8 | 4 | 2 |
| 12-Infectious Skin diseases in adult Equine. | 4 | 2 | 1 |
| 13- Abortions and mastitis in Equine. | 8 | 4 | 2 |
| 14- Anti-inflammatory Agents. | 4 | 2 | 1 |
| 15-Vaccination, vaccination program and Epidemiology | 8 | 4 | 2 |
| 16-Anthelmintics in Equine. | 4 | 2 | 1 |
| 17-Antimicrobial agents. | 4 | 2 | 1 |
| 18- Alternative Medicine. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction and Congenital conditions, Foaling (Mare and Foal Care).(Cases and slide show) | 4 | 2 | 1 |
| 2- Diarrhea in Foal. (Cases and slide show) | 8 | 4 | 2 |
| 3-Respiratory diseases and other Problems in Foal. (Cases and slide show) | 8 | 4 | 2 |
| 4-Endo and Exoparasites in Foal. (Cases and slide show) | 8 | 4 | 2 |
| 5-Parasites in Equine. (Cases and slide show) | 8 | 4 | 2 |
| 6-Hepatobiliarh diseases of Equine. (Cases and slide show) | 8 | 4 | 2 |
| 7-Viral Diseases in adult Equine. (Cases and slide show) | 8 | 4 | 2 |
| 8-Bacterial Conditions in adult Equine. (Cases and slide show) | 8 | 4 | 2 |
| 9- Infectious Diseases of the Equine Gastrointestinal tract. (Cases and slide show) | 8 | 4 | 2 |
| 10-Infectious Diseases of the Equine Gastrointestinal tract. (Cases and slide show) | 8 | 4 | 2 |
| 11- Infectious Respiratory diseases in adult Equine. (Cases and slide show) | 8 | 4 | 2 |
| 12-Infectious Skin diseases in adult Equine. (Cases and slide show) | 4 | 2 | 2 |
| 13- Abortions and mastitis in Equine. (Cases and slide show) | 8 | 4 | 2 |
| 14- Anti-inflammatory Agents. (Cases and slide show) | 4 | 2 | 1 |
| 15-Vaccination, vaccination program and Epidemiology. (Cases and slide show) | 8 | 4 | 1 |
| 16-Anthelmintics in Equine. (Cases and slide show) | 4 | 2 | 1 |
| 17-Antimicrobial agents. (Cases and slide show) | 4 | 2 | 1 |

| | | | |
|---|---|---|---|
| 18- Alternative Medicine. (Cases and slide show) | 4 | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Writing Net researches on the Diseases of Ruminants.**

**4.4- Field studies and clinical cases.**

## 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 (15$^{th}$ week of after registration)

Assessment 2: Practical examination. Week (30$^{th}$ week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

## Weighting of Assessments:

Mid-Term examination 15 %

Practical Examination 20 %

Final-term Examination 50 %

Oral Examination. 15 %

_____

Total 100%

Any formative only assessments

- ❖ Other types of assessment (Case report, essays)

## 6- List of References

### 6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students
- Notes on Equine Medicine.
- 6.2- Essential Books (Text Books)
- Large Animal Medicine, (Timothy H. Ogilvie 1998)

### 6.3- Recommended Books

In our Faculty Library:

- Large Animal Medicine, (Timothy H. Ogilvie 1998)
- Clinical chemistry.
- Pathology of Domestic animals.
- Microbiology, Prescott, Lansing M.
- Color atlas and text book of diagnostic microbiology, Koneman, elmer W.
- Clinical Virology, Leland, Diane Schultze.
- Medical and Veterinary Entmology, D.S.Kettle.

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

- **http://www.infovets.com/styles/default.asp?page=extra/equinetoc.htm**
- **http://www.vin.com/APPUTIL/Misc/BOOKREVIEW/Default.aspx?id=5952&pid=22**
- http://www.vet.utk.edu/clinical/lacs/equine.php
- **http://equinemedicine.org/**
- **http://equine-sportsmedicine.com/index.html**
- **http://vetmedicine.about.com/od/horsebreeds/l/bldiseases_eq.htm**
- **http://csuvets.colostate.edu/equinehospital/medicine_faculty.html**

- http://www.elsevier.com/wps/find/subject_books_browse.cws_home/750?q=1&SH1Code=H05&pseudotype=&sortBy=Title&showProducts=Y&letter=R
- http://www.azequine.com/index.html

**7- Facilities Required for Teaching and Learning**

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 5-COURSE SPECIFICATION OF INFECTIOUS DISEASES OF PETS (IDP) M/D 10B 05

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **INFECTIOUS DISEASES OF PETS (IDP)**

**CODE:** **M/D 10B 05**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR (4SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Infectious Diseases of Pets (IDP).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Infectious Diseases of Pets (IDP).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Infectious Diseases of Pets (IDP).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Common conditions of pet rabbits include snuffles, hairballs, parasites, overgrown incisors, uterine infections or cancer, and sore hocks. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 2- Some common conditions of pet ferrets include diarrhea, distemper, human influenza, parasites, ringworm, and various types of cancer. | 8 | 4 | 2 |
| 3- Common conditions of pet rodents include respiratory diseases, anorexia and lethargy, overgrown teeth, and tumors. | 8 | 4 | 2 |
| 4- Common diseases of pet mice including respiratory infections, cancer, and lice or mites. | 8 | 4 | 2 |
| 5- Poodle, These dogs are known to get spinal deformities, short limbs, skin allergies, nervous system defects, epilepsy, and collapsed trachea. | 8 | 4 | 2 |
| 6- German Shepherd, These dogs are known to acquire epilepsy, kidney disease, cataracts, hemophilia, and bladder stones. | 8 | 4 | 2 |
| 7- Collie,These dogs are known to get epilepsy, deafness, hernias, and hemophilia. | 8 | 4 | 2 |
| 8- Cocker Spaniel,These dogs are known to get hemophilia, spinal deformities, kidney problems, and cataracts. | 8 | 4 | 2 |
| 9- Labrador Retriever, These dogs commonly get bladder stones, cataracts, and hemophilia. | 4 | 2 | 1 |
| 10- Dachshund, These dogs are known to acquire diabetes, spinal deformities, bladder stones, and diabetes. | 4 | 2 | 1 |
| 11- Common conditions of pet iguanas include metabolic bone disease, infectious stomatitis (mouth rot), parasites, abscesses, and hypervitaminosis D. | 4 | 2 | 1 |
| 12- Cat infectious diseases. | 8 | 4 | 2 |
| 13-Presenting complaints in dogs and cats. | 4 | 2 | 1 |
| 14-Physical abnormalities in dogs and cats. | 8 | 4 | 2 |
| 15-Laboratory abnormalities in dogs and cats. | 8 | 4 | 2 |
| 16-Organ system in dogs and cats. | 4 | 2 | 1 |
| 17- Infectious Diseases of Dog. | 8 | 4 | 2 |
| 18- Frequently Asked Questions about Pets and Zoonotic Diseases. | 8 | 4 | 2 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Common conditions of pet rabbits include snuffles, hairballs, parasites, overgrown incisors, uterine infections or cancer, and sore hocks.(Cases and slid show) | 8 | 4 | 2 |
| 2- Some common conditions of pet ferrets include diarrhea, distemper, human influenza, parasites, ringworm, and various types of cancer. (Cases and slid show) | 8 | 4 | 2 |
| 3- Common conditions of pet rodents include respiratory diseases, anorexia and lethargy, overgrown teeth, and tumors. (Cases and slid show) | 8 | 4 | 2 |
| 4- Common diseases of pet mice including respiratory infections, cancer, and lice or mites. (Cases and slid show) | 8 | 4 | 2 |
| 5- Poodle, These dogs are known to get spinal deformities, short limbs, skin allergies, nervous system defects, epilepsy, and collapsed trachea. (Cases and slid show) | 8 | 4 | 2 |
| 6- German Shepherd, These dogs are known to acquire epilepsy, kidney disease, cataracts, hemophilia, and bladder stones. (Cases and slid show) | 8 | 4 | 2 |
| 7- Collie, These dogs are known to get epilepsy, deafness, hernias, and hemophilia. (Cases and slid show) | 8 | 4 | 2 |
| 8- Cocker Spaniel, These dogs are known to get hemophilia, spinal deformities, kidney problems, and cataracts. | 8 | 4 | 2 |
| 9- Labrador Retriever, These dogs commonly get bladder stones, cataracts, and hemophilia. (Cases and slid show) | 4 | 2 | 1 |
| 10- Dachshund, These dogs are known to acquire diabetes, spinal deformities, bladder stones, and diabetes. (Cases and slid show) | 4 | 2 | 1 |
| 11- Common conditions of pet iguanas include metabolic bone disease, infectious stomatitis (mouth rot), parasites, abscesses, and hypervitaminosis D. (Cases and slid show) | 4 | 2 | 1 |
| 12- Cat infectious diseases. (Cases and slid show) | 8 | 4 | 2 |
| 13-Presenting complaints in dogs and cats. (Cases and slid show) | 4 | 2 | 1 |
| 14-Physical abnormalities in dogs and cats. (Cases and slid show) | 8 | 4 | 2 |
| 15-Laboratory abnormalities in dogs and cats. (Cases and slid show) | 8 | 4 | 2 |
| 16-Organ system in dogs and cats. (Cases and slid show) | 4 | 2 | 1 |

| | | | |
|---|---|---|---|
| 17- Infectious Dog Diseases. (Cases and slid show) | 8 | 4 | 2 |
| 18- Frequently Asked Questions about Pets and Zoonotic Diseases. (Cases and slid show) | 8 | 4 | 2 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

6.2- Essential Books (Text Books)

- Canine Internal Medicine, Edward Hall, Kate Murphy and Peter Darke (2003)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Wild animal Medicine, Joshi, B.P.
- General Zoology: laboratory guide, Charles F. Lytle.
- Concepts in Zoology, Harris, C. Leon
- Veterinary applied pharmacology and therapeutics, Brander, G.C.
- The living world, Johnson, George B.
- Animal physiology: Adaptation and Environment, Knut Schmidt-Nielsen.
- Ferrets, rabbits and rodents.
- Anesthesia and analgesia in laboratory animals.
- Pollution in livestock production systems. I. Ap Dewi
- Conservation genetics.
- Atlas of diagnostic radiology of exotic pets.

6.4- Periodicals, Web Sites, … etc

- http://www.petconnect.us/article/rabbithealth/commondiseases.htm
- **http://www.ehow.com/video_4439383_common-mouse-diseases-pet-mice.html**

- http://www.vetinfo.com/non-infectious-dog-diseases.html
- http://www.avma.org/animal_health/pets_ZD_faq.asp
- http://www.uslink.net/~farnham/infdis.htm
- http://vetmedicine.about.com/cs/dogdiseasesi/a/doginfectious.htm
- http://www.dogscatshealth.com/category/infectious-diseases

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 6-COURSE SPECIFICATION OF INFECTIOUS DISEASES OF LAB ANIMALS (IDLA) M/D 10B 06

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the Program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **INFECTIOUS DISEASES OF LAB ANIMALS(IDLA)**

**CODE:** **M/D 10B 06**

**CREDIT HOURS:**

**LECTURE:** ***1 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***2 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***3 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 2- – OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Infectious Diseases of lab Animals (IDLA).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Infectious Diseases of lab Animals (IDLA).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Infectious Diseases of lab Animals (IDLA).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours | Lecture |
|---|---|---|
| 1- Disease Prevention:<br>Introduction, Sources of Information, . | 1 | 1 |
| 2- Taxonomy, Regulatory Considerations, Genetically Modified Mice. | 1 | 1 |
| 3- Factors Predisposing to Disease, Allergies to Rabbits and Rodents. | 1 | 1 |

| | | |
|---|---|---|
| 4- Clinical Procedures. Sample Collection. . | 1 | 1 |
| 5- Hematology, Clinical Chemistry, and Urinalysis. | 1 | 1 |
| 6- Medical Imaging. Ophthalmology | 1 | 1 |
| 7- Administration of Drugs and Formulary. Anesthesia. Analgesia. | 1 | 1 |
| 8- Serologic Testing for Colony Health Surveillance. Other Special Techniques. Euthanasia. | 1 | 1 |
| 9- Clinical Signs and Differential Diagnoses, The Rabbit. The Guinea Pig. The Chinchilla. The Hamster. The Gerbil. The Mouse. The Rat. | 1 | 1 |
| 10-. Specific Diseases and Conditions, Acariasis (Mite Infections). Anorexia and Reduced Food Intake. Bordetella bronchiseptica Infections. Buphthalmia in Rabbits. | 2 | 2 |
| 11- Cestodiasis (Tapeworm Infestations). Cilia-Associated Respiratory Bacillus Infections. Coccidiosis (Hepatic) in Rabbits. Coccidiosis (Intestinal). Coronavirus Infections | 2 | 2 |
| 12- Corynebacterium kutscheri Infections. Cryptosporidiosis. Dermatophytosis (Ringworm). Encephalitozoonosis. Enteropathies.<br>Epilepsy in Gerbils. | 2 | 2 |
| 13- Gastric Stasis in Rabbits. Hantavirus Infections. Heat Prostration.<br>Helicobacter Infections. Hematuria and Pigmented Urine. | 2 | 2 |
| 14-Hypovitaminosis C (Scurvy) in Guinea Pigs. Lawsonia Infections (Proliferative Ileitis of Hamsters). Listeriosis. Lymphocytic Choriomeningitis Virus Infection. Malocclusion and Dental Disease. | 2 | 2 |
| 15-Mastitis. Mousepox (Ectromelia Virus). Murine Encephalomyelitis.<br>Murine Mycoplasmosis. Murine Norovirus Infections | 2 | 2 |
| 16-Myiasis (Fly Strike)—Primary. Myiasis (Fly Strike)—Secondary. Myxomatosis. Nasal Dermatitis (Sore Nose) in Gerbils. Neoplasia. Nephrosis. | 1 | 1 |
| 17-Oxyuriasis (Pinworms). Parvovirus Infections. Pasteurella multocida Infections. Pasteurella pneumotropica Infections. | 2 | 2 |

| | | |
|---|---|---|
| Pediculosis. | | |
| 18-Pneumocystosis. Pododermatitis. Pregnancy Toxemia. Rabies Virus Infection. Ringtail. Rotavirus Infections. | 1 | 1 |
| 19-Salmonellosis. Sendai Virus Infections. Spironucleosis. Splayleg in Rabbits. Staphylococcosis. | 1 | 1 |
| 20-Streptococcus pneumoniae Infections in Rodents Streptococcus zooepidemicus Infections in Guinea Pigs. Transmissible Colonic Hyperplasia in Mice. Tularemia. Tyzzer's Disease. | 1 | 1 |
| 21-Ulcerative Dermatitis (Moist Dermatitis). Urolithiasis. Venereal Spirochetosis (Trepanematosis). Viral Hemorrhagic Disease in Rabbits. | 1 | 1 |
| 22-Case Reports. Rabbit. Guinea Pig. Chinchilla. Hamster. Gerbil. Mouse. Rat. | 1 | 1 |
| 23-Suggested Solutions. Rabbits. Guinea Pigs. Chinchillas. Hamsters. Gerbils. Mice. Rats. | 1 | 1 |

Practical (Lesson)

| Topic | No. of hours | Lesson |
|---|---|---|
| 1- Disease Prevention:<br><br>Introduction, Sources of Information, (cases and slid show). | 2 | 1 |
| 2- Taxonomy, Regulatory Considerations, Genetically Modified Mice. (cases and slid show) | 2 | 1 |
| 3- Factors Predisposing to Disease, Allergies to Rabbits and Rodents(cases and slid show). | 2 | 1 |
| 4- Clinical Procedures. Sample Collection. (cases and slid show) . | 2 | 1 |
| 5- Hematology, Clinical Chemistry, and Urinalysis. (cases and slid show) | 2 | 1 |
| 6- Medical Imaging. Ophthalmology.(cases and slid show) | 2 | 1 |

| | | |
|---|---|---|
| 7- Administration of Drugs and Formulary. Anesthesia. Analgesia. (cases and slid show) | 2 | 1 |
| 8- Serologic Testing for Colony Health Surveillance. Other Special Techniques. Euthanasia. (cases and slid show) | 2 | 1 |
| 9- Clinical Signs and Differential Diagnoses, The Rabbit. The Guinea Pig. The Chinchilla. The Hamster. The Gerbil. The Mouse. The Rat. (cases and slid show) | 2 | 1 |
| 10-. Specific Diseases and Conditions, Acariasis (Mite Infections). Anorexia and Reduced Food Intake. Bordetella bronchiseptica Infections. Buphthalmia in Rabbits. (cases and slid show) | 4 | 2 |
| 11- Cestodiasis (Tapeworm Infestations). Cilia-Associated Respiratory Bacillus Infections. Coccidiosis (Hepatic) in Rabbits. Coccidiosis (Intestinal). Coronavirus Infections. (cases and slid show) | 4 | 2 |
| 12- Corynebacterium kutscheri Infections. Cryptosporidiosis. Dermatophytosis (Ringworm). Encephalitozoonosis. Enteropathies.<br>Epilepsy in Gerbils. (cases and slid show) | 4 | 2 |
| 13- Gastric Stasis in Rabbits. Hantavirus Infections. Heat Prostration.<br>Helicobacter Infections. Hematuria and Pigmented Urine. (cases and slid show) | 4 | 2 |
| 14-Hypovitaminosis C (Scurvy) in Guinea Pigs. Lawsonia Infections (Proliferative Ileitis of Hamsters). Listeriosis. Lymphocytic Choriomeningitis Virus Infection. Malocclusion and Dental Disease. (cases and slid show) | 4 | 2 |
| 15-Mastitis. Mousepox (Ectromelia Virus). Murine Encephalomyelitis.<br>Murine Mycoplasmosis. Murine Norovirus Infections. (cases and slid show) | 4 | 2 |
| 16-Myiasis (Fly Strike)—Primary. Myiasis (Fly Strike)—Secondary. Myxomatosis. Nasal Dermatitis (Sore Nose) in Gerbils. Neoplasia. Nephrosis. (cases and slid show) | 2 | 1 |
| 17-Oxyuriasis (Pinworms). Parvovirus Infections. Pasteurella multocida Infections. Pasteurella pneumotropica Infections. | 4 | 2 |

| | | |
|---|---|---|
| Pediculosis. (cases and slid show) | | |
| 18-Pneumocystosis. Pododermatitis. Pregnancy Toxemia. Rabies Virus Infection. Ringtail. Rotavirus Infections. (cases and slid show) | 2 | 1 |
| 19-Salmonellosis. Sendai Virus Infections. Spironucleosis. Splayleg in Rabbits. Staphylococcosis. (cases and slid show) | 2 | 1 |
| 20-Streptococcus pneumoniae Infections in Rodents Streptococcus zooepidemicus Infections in Guinea Pigs. Transmissible Colonic Hyperplasia in Mice. Tularemia. Tyzzer's Disease. (cases and slid show) | 2 | 1 |
| 21-Ulcerative Dermatitis (Moist Dermatitis). Urolithiasis. Venereal Spirochetosis (Trepanematosis). Viral Hemorrhagic Disease in Rabbits. (cases and slid show) | 2 | 1 |
| 22-Case Reports. Rabbit. Guinea Pig. Chinchilla. Hamster. Gerbil. Mouse. Rat. (cases and slid show) | 2 | 1 |
| 23-Suggested Solutions. Rabbits. Guinea Pigs. Chinchillas. Hamsters. Gerbils. Mice. Rats. (cases and slid show) | 2 | 1 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Self performing of lab tests.**

**4.4- Microscopes, hematology apparatuses and equipments.**

## 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

**WEIGHTING OF ASSESSMENTS:**

| | |
|---|---|
| Mid-Term examination | 15 % |
| Practical Examination | 20 % |
| Final-term Examination | 50 % |
| Oral Examination. | 15 % |
| Total | 100% |

Any formative only assessments

- ❖ Other types of assessment (Case report, essays)

## 6- LIST OF REFERENCES

6.1- Course Notes

- Hand out of the lectures and ppt and CDs direct to the students
- Notes on Veterinary hematological laboratory diagnostics

6.2- Essential Books (Text Books)

- Harkness and Wagner s Biology and Medicine of Rabbits and Rodents, 5th Edition, January 2010, Wiley-Blackwell

6.3- Recommended Books

In our Faculty Library:

- The laboratory rabbit (Suckow Mark A.).
- Atlas of Diagnostic radiology of exotic pets.
- Anesthesia and analgesia in laboratory animals.
- Ferrets, rabbits and rodents.
- General Zoology: laboratory Guide.

6.4- Periodicals, Web Sites, … etc

- http://www.labanimal.com
- Laboratory Animal Medicine and Management
- **http://www.labanimalconsulting.com/index.html**
- **http://www.aclam.org/**
- Online Texts, Articles and Reports
- Online Laboratory Animal Medicine Journals & Newsletters
- Selected Laboratory Animal Medicine Organizations
- Government Websites Related to Laboratory Animal Research
- Selected Websites that Support Animal Research Endeavors

**7- Facilities Required for Teaching and Learning**

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass.Prof. Dr. Adel Elsayed Ahmed Prof.Dr. M. Nour. Ismail

# 7-COURSE SPECIFICATION OF INFECTIOUS DISEASES OF UDDER AND CALVES (IDUC) M/D10B 07

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAM: *VETERINARY SCIENCE*

**Department offering the program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **INFECTIOUS DISEASES OF UDDER AND CALVES (IDUC)**
**CODE:** **M/D 10B 07**
**CREDIT HOURS:**
**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***
**TUTORIAL:**
**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***
**TOTAL:** ***8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Infectious Diseases of Udder and Calves (IDUC).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Infectious Diseases of Udder and Calves (IDUC).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Infectious Diseases of Udder and Calves (IDUC).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

### C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

### D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction, Importance of colostrums. and ImmunityCongenital conditions. | 8 | 4 | 2 |
| 2- Mastitis, diagnosis and prevention and control , treatment. | 8 | 4 | 2 |
| 3- colostrums and immunity. | 8 | 4 | 2 |
| 4-Septicemia in calves. | 8 | 4 | 2 |
| 5-Diarrhea in calves. | 8 | 4 | 2 |
| 6-Pneumonia and respiratory diseases in calves. | 8 | 4 | 2 |
| 7- Foreign Animal Diseases, Foot and Mouth Disease – FMD. | 8 | 4 | 2 |
| 8- Emerging Diseases, John's Disease – (BJD)<br>Bovine Leucosis – (BLV)_. | 8 | 4 | 2 |
| 9- diseases due Internal parasites. | 8 | 4 | 2 |
| 10- diseases due external parasites. | 8 | 4 | 2 |
| 11- diseases due to fungal affections. | 8 | 4 | 2 |
| 12- diseases due to Vitamins Deficiencies in newborn dog and cat. | 8 | 4 | 2 |
| 13- Epidemiology of udder diseases. | 4 | 2 | 1 |
| 14- epidemiology of calf diseases. | 8 | 4 | 2 |
| 15-Clinical and Laboratory diagnosis of udder and calf diseases. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 16-Prevention and control of udder and calf diseases. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction, Importance of colostrums. and ImmunityCongenital conditions.(cases and slide show) | 8 | 4 | 2 |
| 2- Mastitis, diagnosis and prevention and control , treatment. (cases and slide show) | 8 | 4 | 2 |
| 3- colostrums and immunity. (cases and slide show) | 8 | 4 | 2 |
| 4-Septicemia in calves. (cases and slide show) | 8 | 4 | 2 |
| 5-Diarrhea in calves. (cases and slide show) | 8 | 4 | 2 |
| 6-Pneumonia and respiratory diseases in calves. (cases and slide show) | 8 | 4 | 2 |
| 7- Foreign Animal Diseases, Foot and Mouth Disease – FMD. (cases and slide show) | 8 | 4 | 2 |
| 8- Emerging Diseases, John's Disease – (BJD)<br>Bovine Leucosis – (BLV). (cases and slide show) | 8 | 4 | 2 |
| 9- diseases due Internal parasites. (cases and slide show) | 8 | 4 | 2 |
| 10- diseases due external parasites. (cases and slide show) | 8 | 4 | 2 |
| 11- diseases due to fungal affections. (cases and slide show) | 8 | 4 | 2 |
| 12- diseases due to Vitamins Deficiencies in newborn dog and cat. (cases and slide show) | 8 | 4 | 2 |
| 13- Epidemiology of udder diseases. (cases and slide show) | 4 | 2 | 1 |

| | | | |
|---|---|---|---|
| 14- epidemiology of calf diseases. (cases and slide show) | 8 | 4 | 2 |
| 15-Clinical and Laboratory diagnosis of udder and calf diseases. (cases and slide show) | 8 | 4 | 2 |
| 16-Prevention and control of udder and calf diseases. (cases and slide show) | 4 | 2 | 1 |

## 4– TEACHING AND LEARNING METHODS

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

i. Hand out of the lectures and ppt and CDs direct to the students

6.2- Essential Books (Text Books)

- Bovine Medicine, Andrews, Blowey and Eddy,(1992)
- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Bovine Medicine, Andrews, Blowey and Eddy,(1992)
- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.4- Periodicals, Web Sites, … etc

- **http://cattletoday.info/calfscours.htm.**
- http://www.extension.org/pages/Calf_Diseases_and_Prevention
- **http://www.extension.org/pages/Calf_Diseases_and_Prevention**
- **http://www.farmandranchbiosecurity.com/dictionary_cow_calf.htm**
- **https://profreg.medscape.com/px/getlogin.do?urlCache=aHR0cDovL3d3dy5tZWRzY2FwZS5jb20vbWVkbGluZS9hYnN0cmFjdC84MzQ2NTI2**

- http://www.nadis.org.uk/DiseasesSheep/SurvivalNewbornLambs/Survival%20of%20Newborn%20Lambs.htm
- http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1405115467,descCd-tableOfContents.html
- http://www.merckvetmanual.com/mvm/index.jsp?cfile=htm/bc/toc_110900.htm
- http://nyschap.vet.cornell.edu/module/mastitis/section2/Mastitis%20Therapy%20Fact%20Sheet.pdf

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail

# 8-COURSE SPECIFICATION OF INFECTIOUS DISEASES OF BUFFALO (IDB) M/D 10B 08

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAM: *VETERINARY SCIENCE*

**Department offering the program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **INFECTIOUS DISEASES OF BUFFALO (IDB)**

**CODE:** **M/D 10B 08**

**CREDIT HOURS:**

**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TUTORIAL:**

**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***

**TOTAL:** ***8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Infectious Diseases of Buffalo (IDB).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Infectious Diseases of Buffalo (IDB).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Infectious Diseases of Buffalo (IDB).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction to Infectious Diseases of **Buffalo**. | 8 | 4 | 2 |
| 2-General Identification and manifestation of Infectious diseases of | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| **Buffalo**. | | | |
| 3-Infectious diseases of newly born of **Buffalo**. | 12 | 6 | 3 |
| 4-Infectious Diseases of Digestive system in **Buffalo**. | 16 | 8 | 4 |
| 5- Infectious Diseases of Respiratory system in **Buffalo**. | 8 | 4 | 2 |
| 6- Infectious Diseases of Cardiovascular system in **Buffalo**. | 8 | 4 | 2 |
| 7- Infectious Diseases of Skin in **Buffalo**. | 8 | 4 | 2 |
| 8- Infectious Diseases of Urinary system in **Buffalo**. | 8 | 4 | 2 |
| 9- Infectious Diseases of Musculoskeletal system in **Buffalo**. | 8 | 4 | 2 |
| 10- Infectious Diseases of special organs in **Buffalo**. | 8 | 4 | 2 |
| 11-General consideration in Treatments of Infectious diseases in **Buffalo**. | 8 | 4 | 2 |
| 12- Vaccination and Immunization in **Buffalo**. | 12 | 6 | 3 |
| 13-Epidemiology of Infectious diseases in **Buffalo**. | 8 | 4 | 2 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction to Infectious Diseases of **Buffalo**.(Cases and Slide Show) | 8 | 4 | 2 |
| 2-General Identification and manifestation of Infectious diseases of **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 3-Infectious diseases of newly born of **Buffalo**. .(Cases and Slide Show) | 12 | 6 | 3 |
| 4-Infectious Diseases of Digestive system in **Buffalo**. .(Cases and Slide Show) | 16 | 8 | 4 |

| | | | |
|---|---|---|---|
| 5- Infectious Diseases of Respiratory system in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 6- Infectious Diseases of Cardiovascular system in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 7- Infectious Diseases of Skin in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 8- Infectious Diseases of Urinary system in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 9- Infectious Diseases of Musculoskeletal system in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 10- Infectious Diseases of special organs in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 11-General consideration in Treatments of Infectious diseases in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |
| 12- Vaccination and Immunization in **Buffalo**. .(Cases and Slide Show) | 12 | 6 | 3 |
| 13-Epidemiology of Infectious diseases in **Buffalo**. .(Cases and Slide Show) | 8 | 4 | 2 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show.**

**4.2-Blck board and choke.**

**4.3-Self performing of lab tests.**

**4.4- Microscopes, hematology apparatuses and equipments.**

## 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

**WEIGHTING OF ASSESSMENTS:**

| | |
|---|---|
| Mid-Term examination | 15 % |
| Practical Examination | 20 % |
| Final-term Examination | 50 % |
| Oral Examination. | 15 % |
| Total | 100% |

Any formative only assessments

- ❖ Other types of assessment (Case report, essays)

## 6- LIST OF REFERENCES

6.1- Course Notes

i. Hand out of the lectures and ppt and CDs direct to the students

ii. Notes on Animal Infectious Diseases

6.2- Essential Books (Text Books)

- Bovine Medicine, Andrews, Blowey, Boyd and Eddy, Blackwell scientific puplications,1992.
- An Introduction to Microbiology (Tauro,P)
- Animal Parasitology Smyth, J.D.).
- Veterinary Immunology (Tizard, Ian R.).
- Microbiology (perscott, Lansing M.).

6.3- Recommended Books

In our Faculty Library:

- General Microbiology (Schlegel, Hans Guenther).
- Essential Immunology (Roitt, Ivan m.).
- Pathology of Domestic animals.
- Bovine Medicine.
- Laboratory experiments in Microbiology, Johnson, Ted R.
- Color Atlas of small animal dermatology )Kummel, Barbara A).
- Handbook of small animal dermatology (Moriollo, Karen A.).
- Clinical virology.
- Medical and Veterinary Entmology (D.S.Kettle)

6.4- Periodicals, Web Sites, … etc

- http://www.essortment.com/all/diseasesincatt_riha.htm
- http://extension.usu.edu/files/publications/factsheet/AH_Beef_27.pdf
- http://www.texascattleraisers.org/issues/2006/0306/howeffectivevaccine.asp
- http://cattletoday.info/ibr.htm
- http://www2.warwick.ac.uk/fac/sci/bio/res/populations/riginfo/research/livestock/britishcattle/

**7- Facilities Required for Teaching and Learning**

- Fixed data show system in the Lecture hall and lessons room.
- Blood gas analyzer,
- Auto analyzer.
- Automatic blood cell counter
- Spectrometer and electrophoresis apparatus.

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. / Adel Elsayed Ahmed Prof. Dr. M. Nour. Ismail

# 9-Course Specification of Infectious Diseases of Wild Animals (IDWA) M/D 10B 09

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAM: *VETERINARY SCIENCE*

**Department offering the program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** **INFECTIOUS DISEASES OF WILD ANIMALS (IDWA)**
**CODE:** **M/D 10B 09**
**CREDIT HOURS:**
**LECTURE:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***
**TUTORIAL:**
**PRACTICAL:** ***4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS***
**TOTAL:** ***8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS***

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Infectious Diseases of Wild Animals (IDWA).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Infectious Diseases of Wild Animals (IDWA).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Infectious Diseases of Wild Animals (IDWA).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1-Conservation veterinary medicine and Ecology. | 12 | 6 | 3 |

| | | | |
|---|---|---|---|
| 2-Taxonomy and classification of the Animal Kingdom. | 8 | 4 | 2 |
| 3-Methods of Restraint of the wild animal for medical examination. | 12 | 6 | 3 |
| 4-Reptile and Amphibian Medicine. | 12 | 6 | 3 |
| 5-Aquatic animal medicine. | 12 | 6 | 3 |
| 6-Wild Canine medicine. | 12 | 6 | 3 |
| 7-Diseases of wild Ruminants and Ungulates. | 12 | 6 | 3 |
| 8-Diseases of wild Equines. | 8 | 4 | 2 |
| 9-Diseases of Elephants and Giraffes. | 8 | 4 | 2 |
| 10-Diseases of Primates. | 8 | 4 | 2 |
| 11-Exotic Companion Animal Medicine. | 8 | 4 | 2 |
| 12-Rodent and Small Mammal and lab animal Medicine | 8 | 4 | 2 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| Conservation veterinary medicine and Euthanasia. (Film) + museum | 12 | 6 | 3 |
| Taxonomy and classification of the Animal Kingdom. (Film) + museum | 8 | 4 | 2 |
| Methods of Restraint of the wild animal for medical examination.(Film)+ museum | 12 | 6 | 3 |
| Reptile and Amphibian Medicine. (Film) + museum | 12 | 6 | 3 |
| Aquatic animal medicine. (Film) + museum | 12 | 6 | 3 |
| Wild Canine medicine. (Film) + museum | 12 | 6 | 3 |
| Diseases of wild Ruminants and Ungulates. (Film) + museum | 12 | 6 | 3 |
| Diseases of wild Equines. (Film) + museum | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| Diseases of Elephants and Giraffes. (Film) + museum | 8 | 4 | 2 |
| Diseases of Primates. (Film) + museum | 8 | 4 | 2 |
| Exotic Companion Animal Medicine. (Film) + museum | 8 | 4 | 2 |
| Rodent and Small Mammal and lab animal Medicine. (Film) + museum | 8 | 4 | 2 |

## 4– Teaching and Learning Methods

**4.1-Data show and slide show .**

**4.2-Blck 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 (15$^{th}$ week of after registration)

Assessment 2: Practical examination. Week (30$^{th}$ week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

## 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

i. Hand out of the lectures and ppt and CDs direct to the students

6.2- Essential Books (Text Books)

- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Wild animal Medicine, Joshi, B.P.
- General Zoology: laboratory guide, Charles F. Lytle.
- Concepts in Zoology, Harris, C. Leon
- Veterinary applied pharmacology and therapeutics, Brander, G.C.
- The living world, Johnson, George B.
- Animal physiology: Adaptation and Environment, Knut Schmidt-Nielsen.
- Ferrets, rabbits and rodents.
- Anesthesia and analgesia in laboratory animals.
- Pollution in livestock production systems. I. Ap Dewi
- Conservation genetics.
- Atlas of diagnostic radiology of exotic pets.

6.4- Periodicals, Web Sites, … etc

- **http://www.us.elsevierhealth.com/specialty.jsp?lid=5&sid=573**
- **http://nationalzoo.si.edu/SCBI/ZoologicalMedicine/default.cfm**
- **http://www.giant-salamander.com/eshow.asp?ArticleID=884**

- **http://www.elsevier.com/wps/find/bookdescription.reviewers/712492/description#description**

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass.Prof. Dr. Adel Elsayed Ahmed Prof.Dr. M. Nour. Ismail

# 10-COURSE SPECIFICATION OF EPIDEMIOLOGY OF INFECTIOUS DISEASES (EID) M/D 10B 10

PROGRAM (S) ON WHICH THE COURSE IS GIVEN: *MASTER OF VETERINARY SCIENCE POSTGRADUATE* (M- VSC)

MAJOR ELEMENT OF PROGRAMS: *VETERINARY SCIENCE*

**Department offering the program:** ***Faculty of Veterinary Medicine***

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

**ACADEMIC YEAR / LEVEL:** ***POSTGRADUATE***

**Date of specification approval:**

## A- BASIC INFORMATION

**TITLE:** EPIDEMIOLOGY OF INFECTIOUS DISEASES (EID)
**CODE:** M/D 10B 10
**CREDIT HOURS:**
**LECTURE:** *4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS*
**TUTORIAL:**
**PRACTICAL:** *4 HRS (MAIN) OR (2 SUB) / WEEK FOR 30 WEEKS*
**TOTAL:** *8 HRS(MAIN) OR (4 SUB) / WEEK FOR 30 WEEKS*

## B- PROFESSIONAL INFORMATION

### 1-OVERALL AIMS OF COURSE

a. **Good application of principals and methods of Scientific research and use its different methods.**

b. **Application of the analytical method in the field of** Epidemiology of Infectious Diseases (EID).

c. **Application of the specific knowledge in relation with other knowledge in the profession.**

d. **Discover the actual problems and the recent visions in the field of** Epidemiology of Infectious Diseases (EID).

e. **Defining the professional problems and finding solutions.**

f. **Wide suitable special professional skills and using the suitable techniques in the field of** Epidemiology of Infectious Diseases (EID).

g. **Active communication and the ability to lead work team.**

h. **Discussion making in the profession.**

i. **Using the available sources in order to obtain and keeping the highest values.**

j. **Awareness in society development and environmental preservation national and international**

k. **Transparency correctness and following the professional ethics.**

l. **Self academic and professional development and able for self learning.**

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

### A-Knowledge and Understanding:

**a1- theories and principals related to the study and other fields related to the field.**

**a2- the effect of the applications on the environmental.**

**a3- the scientific development in the field of specialty.**

**a4- Ethics and laws of the profession in the field of specialty.**

**a5- principals of quality control assurance in the profession in the field of specialty.**

**a6- Principals and Ethics of scientific researches .**

### B-Intellectual Skills

**b1- Skills in analysis and evaluation in the field of specialty and solution of problems.**

**b2- Skills in solution of specific problems in case of shortage of resources .**

**b3- Skills in connection between different knowledge in solution of professional problems.**

**b4- Skills in research study or writing scientific paper about the research problems.**

**b5- evaluation of the risks in the profession in the field of specialty.**

**b6- planning for development of the performance in the field of specialty.**

**b7- decision making in the professional policy.**

C-PROFESSIONAL AND PRACTICAL SKILLS

**c1- Good performance of recent professional principals in the field of specialty .**

**c2- Writing and evaluation of professional reports.**

**c3- Evaluation of techniques in the field of specialty .**

D-GENERAL AND TRANSFERABLE SKILLS

**d1-Different types of active communication .**

**D2-using of information technology on the behave of professional application .**

**d3-self assessment and renewing the self learning needs.**

**D4-uses of different resources for obtaining information and knowledge.**

**D5-rules and parameters for evaluation of team performance .**

**D6-working in leading team in the profession.**

**D7-time management.**

**D8-contiuing self learning.**

## 3- CONTENTS

Theoretical (Lectures)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lecture |
|---|---|---|---|
| 1- Introduction to Infectious Disease Epidemiology | 8 | 4 | 2 |
| 2- Overview of Microbiology. | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 3- The Molecular Epidemiology of Infectious Disease. | 8 | 4 | 2 |
| 4- Modeling of Infectious Disease. | 8 | 4 | 2 |
| 5- Case-Control Studies. | 8 | 4 | 2 |
| 6- Vaccines - Impact, Questions, and Challenges. | 8 | 4 | 2 |
| 7- Measles. | 8 | 4 | 2 |
| 8- Disease Eradication. | 8 | 4 | 2 |
| 9- Beyond Osler: The Past, Present, and Future of Infection Control. | 8 | 4 | 2 |
| 10- Nutrition and Infection in the Developing World. | 8 | 4 | 2 |
| 11- Epidemiology of Diarrheal Diseases. | 8 | 4 | 2 |
| 12- TB Epidemiology. | 8 | 4 | 2 |
| 13- Blood parasites. | 4 | 2 | 1 |
| 14- Influenza: Virus and Disease, Epidemics and Pandemics. | 8 | 4 | 2 |
| 15- Lyme Disease and Its Epidemiology. | 8 | 4 | 2 |
| 16- Epidemiology and Control of Malaria. | 4 | 2 | 1 |

Practical (Lesson)

| Topic | No. of hours 4(Main) | No. of hours 2(Sub) | Lesson |
|---|---|---|---|
| 1- Introduction to Infectious Disease Epidemiology | 8 | 4 | 2 |

| | | | |
|---|---|---|---|
| 2- Overview of Microbiology. | 8 | 4 | 2 |
| 3- The Molecular Epidemiology of Infectious Disease. | 8 | 4 | 2 |
| 4- Modeling of Infectious Disease. | 8 | 4 | 2 |
| 5- Case-Control Studies. | 8 | 4 | 2 |
| 6- Vaccines - Impact, Questions, and Challenges. | 8 | 4 | 2 |
| 7- Measles. | 8 | 4 | 2 |
| 8- Disease Eradication. | 8 | 4 | 2 |
| 9- Beyond Osler: The Past, Present, and Future of Infection Control. | 8 | 4 | 2 |
| 10- Nutrition and Infection in the Developing World. | 8 | 4 | 2 |
| 11- Epidemiology of Diarrheal Diseases. | 8 | 4 | 2 |
| 12- TB Epidemiology. | 8 | 4 | 2 |
| 13- Blood parasites. | 4 | 2 | 1 |
| 14- Influenza: Virus and Disease, Epidemics and Pandemics. | 8 | 4 | 2 |
| 15- Lyme Disease and Its Epidemiology. | 8 | 4 | 2 |
| 16- Epidemiology and Control of Malaria. | 4 | 2 | 1 |

## 4– TEACHING AND LEARNING METHODS

**4.1-Data show and slide show .**

**4.2-Blck 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 (15th week of after registration)

Assessment 2: Practical examination. Week (30th week of after registration)

Assessment 3: Final-term Examination. (After 12 months from the registration time)

Assessment 4: Oral examination. After the final term examination

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

iii. Hand out of the lectures and ppt and CDs direct to the students

6.2- Essential Books (Text Books)

- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Wild animal Medicine, Joshi, B.P.
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).

6.3- Recommended Books

In our Faculty Library:

- Kenrad E. Nelson & Carolyn Masters Williams. *Infectious Disease Epidemiology: Theory and Practice.* Second Edition. Jones and Bartlett Publishers, 2006.
- Bovine Medicine, Andrews, Blowey and Eddy,(1992)
- Metabolic and Nutritional Diseases of Cattle, (J.M.Payne,1989)
- Large Animal Internal Medicine, Timthy, H. Oglivie, Williams & Wilkins (1998).
- Small Animal Internal Medicine, Darcy, Show and Sherri Ihle, Williams & Wilkins (1997).
- van rie A, Warren R, Richardson M, Victor TC, Gie RP, Enarson DA, Beyers N, van Helden PD. Exogenous reinfection as cause of recurrent tuberculosis after curative treatment. New Engl J Med 1999;341(15):1174-1179.

6.4- Periodicals, Web Sites, … etc

- http://ocw.jhsph.edu/courses/EpiInfectiousDisease/readings.cfm
- Harper DM, Franco EL. Efficacy of a bivalent L1 virus-like particle vaccine in prevention of infectin with human papillomavirus types 16 and 18 in young women: a randomized controlled trial. Lancet 2004 (364):1757-1765.
- Alexander LN , Seward JF, et al. Vaccine policy changes and epidemiology of poliomyelitis in the United States . JAMA 2004; 292:1696-1701.

**7- Facilities Required for Teaching and Learning**

- Isolated sanitary room
- Fixed data show system in the Lecture hall and lessons room.
- Ultra-sonography,
- Endoscopy
- X-ray
- Tools for animal restraint

**DATE: / /** **COURSE COORDINATOR:** **HEAD OF DEPARTMENT:**

Ass. Prof. Dr. /Adel E. Ahmed Prof.Dr. M. Nour. Ismail