



Special Parasitology

Diploma COURSE SPECIFICATION

A. BASIC INFORMATION

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|--|----------------------------------|
| University: | University of Sadat City |
| Faculty: | Veterinary Medicine |
| Program on which the course is given: | Farm Animal Diseases |
| Department offering the Course: | Parasitology |
| Course code: | 924 |
| Course title: | Special Parasitology |
| Lecture (hr/week): | 1 |
| Practical (hr/week): | 1 |
| Course coordinator: | Prof. Dr. Nasr M. El Bahy |

B. PROFESSIONAL INFORMATION

- ❖ Identify different species of parasites with good Knowledge about their Taxonomy & morphological characters
- ❖ Professionally understand Biology of parasites, Survival strategies of parasites, the means of spread of parasites and behavioral ecology of different parasites
- ❖ Have the ability to analyze and interpret Host-parasite relationships, the Damage to host (the pathogenicity and the disease produced) and the public health importance of different parasites
- ❖ Able to diagnose the parasitic infection and apply the recommended control measures.

a) KNOWLEDGE AND UNDERSTANDING

By the end of this course, the graduate should be able to:

- a.1. Identify the fundamental concepts of Parasitology with the technical vocabulary used in this field.
- a.2. Describe morphological, biological and geographical criteria of different parasites.
- a.3. Recognize the parasite-drug interaction.
- a.4. Explain parasite-host interaction (Immune inter-relations between parasite and the host).

b) INTELLECTUAL SKILLS

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

- b.1. Interpret common taxa of parasites based on morphological, biologic and geographical criteria and clinical observation.
- b.2. Differentiate between the behavior and ecology of different parasite species and stages in the environment.
- b.3. Determine the factors responsible for infection and disease caused by various parasites.
- b.4. Select protection measurements against infection with different parasites.

c) PROFESSIONAL AND PRACTICAL SKILLS

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

- c.1. Apply the collection, isolation and the preservation of different parasites efficiently.
- c.2. Diagnose different parasites.
- c.3. Employ the different methods of diagnosis for detection of different parasitic infection in different hosts.
- c.4. Identify different parasites infecting different animals.

d) GENERAL AND TRANSFERABLE SKILL

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

- d.1. join with team efficiently.
- d.2. Enhance the use of library services and IT tools.
- d.3. Improve computer / keyboard skills including word
- d.4. Create effective presentation.

| <i>Theoretical Topics</i> | No. of hours | | |
|-------------------------------------|---------------------|------------------|--------------|
| | Lectures | Practical | Total |
| Introduction to Parasitology | 4 | - | 4 |

| | | | |
|--|-----------|-----------|-----------|
| Class: Trematoda | 4 | - | 4 |
| Class: Cestoda | 4 | - | 4 |
| Class: Nematoda | 4 | - | 4 |
| Controle and diagnosis of helminthes | 4 | - | 4 |
| Phylum: Arthropoda | 6 | - | 4 |
| Control of arthropods | 4 | - | 4 |
| Kingdom: protozoa Introduction, Phylum: apicomplexa, saromastigophora, ciliaphora | 10 | | 8 |
| Control of protozoal infections | 4 | | 4 |
| <i>Pracrical Topics</i> | | | |
| Collection and preservation of different parasites | | 4 | 4 |
| Mounting of different parasites | | 4 | 4 |
| Demonstration of Trematode samples | | 4 | 4 |
| Demonstration of cestode samples | - | 4 | 4 |
| Demonstration of nematode samples | - | 8 | 8 |
| Demonstration of arthropode samples | - | 4 | 4 |
| Demonstration of protozoal samples | - | 8 | 8 |
| Application of different drugs for control of parasites | - | 8 | 8 |
| Total | 44 | 44 | 88 |

4)

- 4.1. Lectures.
- 4.2. Practical.
- 4.3. Self-learning activities.

5)

a. ASSESSMENT METHODS:

| | |
|--------------------------|---|
| 1- Written examination | For assessment of knowledge, back calling and Intellectual skills |
| 2- Practical examination | For assessment of practical and professional skill. |
| 3- Oral examination | For assessment of knowledge and Intellectual skills |
| 4- Student activities | For assessment of knowledge and general and transferable skills |

b. MATRIX ALIGNMENT OF THE MEASURED ILOS/ ASSESSMENTS METHODS:

| | K.U (a) | I.S (b) | P.P.S (c) | G.S (d) |
|---|---------|---------|-----------|---------|
| Written exam | 1-4 | 1,3,4 | | - |
| Practical exam | | | 1-4 | - |
| Oral exam | 1,2,3 | 1,3,4 | | - |
| Student activities (assay, seminar, etc.) | 1,2,3 | 1,2 | | 1-4 |

c. WEIGHT OF ASSESSMENTS:

| Assessment | Allocated Mark | Evidence |
|---------------------|----------------|---|
| Final written exam | 50% | Marked and signed written paper |
| Practical exam | 20% | Marked and signed practical exam paper |
| Oral exam | 20% | Signed list of oral exam marks |
| Student assignments | 10% | Representative samples of presented materials |

1)

6.1. Department notes:

Department theoretical books and practical manual.

6.2. Essential books:

-] Wall, R. and Shearer, D. (1997): Veterinary protozoology. Published by Chapman & Hall, 2-6 Boundary Row, London SE1 8HN, UK.
-] Hendrix C.H.M and Robinson E. (2006): Diagnostic parasitology for veterinary technicians. Mosby Inc. an affiliate of Elsevier Inc.
-] Hendrix C.H.M. (1998): Diagnostic veterinary parasitology 1998 by Mosby Inc.
-] Lapage, G. (1956): Veterinary parasitology. 1st publ., Edinburgh: Tweeddale Court, London.
-] Garcia L.S. (1999) Practical guide to diagnostic parasitology American Society for Microbiology.
-] Soulsby, E.J.L. (1986): Helminths, Arthropods and protozoa of domesticated animals. 7th ed. Baillier, Tidal and Cassel, London.

6.3. Journals & websites:

-] Parasitology Today
-] The Journal of Parasitology
-] www.asp.unl.edu/
-] www.aavp.org
-] www.dpd.cdc.gov
-] www.vetmed.wise.edu
-] PubMed
-] Science Direct

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| Name | Prof. Dr. Nasr Moawad El-Bahy | Prof. Dr. Nasr Moawad El-Bahy |
| Signature | | |

| Topic | No. of hours /week | | Total hours /semester | ILOs | | | | T&L.methods | | | | |
|--|--------------------|--------|-----------------------|---------|---------|-----------|-----------|-------------|--------|----------------------|--------------|------------|
| | Lect. | Pract. | | K&U (a) | I.S (b) | P.P.S (c) | G.T.S (d) | Lect. | Pract. | Self& active leaning | Audio visual | Case study |
| Introduction to Parasitology | 4 | | 4 | 1,2,3 | 1,2 | | | | | | | |
| Class: Trematoda | 4 | | 4 | 2,3,4 | 3,4 | | 1,2,4 | | | | | |
| Class: Cestoda | 4 | | 4 | 3 | 1,2 | | 2,3 | | | | | |
| Class: Nematoda | 4 | | 4 | 1 | 1,3 | | 1,2,3,4 | | | | | |
| Control and diagnosis of helminthes | 4 | | 4 | 3 | 3,4 | | 1,2,3 | | | | | |
| Phylum: Arthropoda | 6 | | 6 | 2 | 2 | | | | | | | |
| Control of arthropods | 4 | | 4 | 3,4 | 3,4 | | | | | | | |
| Kingdom: protozoa Introduction, Phylum: apicomplexa, saromastigophora, ciliophora and Control of protozoal infections | 14 | | 14 | 3 | 3,4 | | | | | | | |
| Collection and preservation of different parasites | | 4 | 4 | | | 1-4 | 1-4 | | | | | |

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|--|-----------|-----------|-----------|--|--|------------|------------|--|--|--|--|--|
| Mounting of different parasites | | 4 | 4 | | | 1-4 | 1-4 | | | | | |
| Demonstration of Trematode samples | | 4 | 4 | | | 1-4 | 1-4 | | | | | |
| Demonstration of cestode samples | | 4 | 4 | | | 1-4 | 1-4 | | | | | |
| Demonstration of nematode samples | | 8 | 8 | | | 1-4 | 1-4 | | | | | |
| Demonstration of arthropode samples | | 4 | 4 | | | 1-4 | 1-4 | | | | | |
| Demonstration of protozoal samples | | 8 | 8 | | | 1-4 | 1-4 | | | | | |
| Application of different drugs for control of parasites | | 8 | 8 | | | 1-4 | 1-4 | | | | | |
| Total | 44 | 44 | 88 | | | | | | | | | |