



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

|  |   |  |                      |  |   |                                |   |            |   |
|--|---|--|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title                                     |   | Diagnosis Of Trematod Diseases   |                      |  |   |                                |   |            |   |
| Course Code                                      |   | VPR605   |                      | Coure Level  |   | Third Cycle (Doctorate Degree) |   |            |   |
| ECTS Credit                                      | 5 | Workload   | 125 ( <i>Hours</i> ) | Theory   | 2 | Practice                       | 2 | Laboratory | 0 |
| Objectives of the Course                         |   | The purpose of this course is to inform about Criteria of morphological diagnosis, fecal examination of trematods like Fasciola, Paramphistomum and Schistosoma, diagnosis of eggs of various trematods, methods of differential diagnosis in eggs and adults. |                      |  |   |                                |   |            |   |
| Course Content                                   |   | Criteria of morphological diagnosis, fecal examination of trematods like Fasciola, Paramphistomum and Schistosoma, diagnosis of eggs of various trematods, methods of differential diagnosis in eggs and adults.   |                      |  |   |                                |   |            |   |
| Work Placement                                   |   | N/A  |                      |  |   |                                |   |            |   |
| Planned Learning Activities and Teaching Methods |   |  |                      | Explanation (Presentation), Discussion, Case Study |   |                                |   |            |   |
| Name of Lecturer(s)                              |   | Prof. Serkan BAKIRCI   |                      |  |   |                                |   |            |   |

### Assessment Methods and Criteria

| Method              | Quantity | Percentage (%) |
|---------------------|----------|----------------|
| Midterm Examination | 1        | 20             |
| Final Examination   | 1        | 60             |
| Quiz                | 2        | 10             |
| Term Assignment     | 4        | 10             |

### Recommended or Required Reading

|   |  |
|---|--|
| 1 | Tüzer, E , Toparlak, M ( 2000 ) : Veteriner Helminoloji , İ.Ü.Ders Notları.                              |
| 2 | Güralp, N. (1981). Helminoloji. A.Ü.Basımevi, Ankara.  |
| 3 | Urquhart, Gm , Et. Al. (1987) : Veterinary Parasitology , Longman Scientific And Technical.              |
| 4 | Bowman, D.D.,R.C. Lynn, (1995). Georgis' Parasitology For Veterinarians. W. B. Saunders Company, Usa.    |
| 5 | Güçlü, F. (2002).Genel Parazitoloji. S.Ü.Basımevi, Konya.  |
| 6 | Burgu, A. (2008).Genel Parazitoloji. A.Ü.Basımevi, Ankara.   |
| 7 | Burgu, A., Karaer, Z. (2005). Parazit Hastalıklarında Tedavi. Türkiye Parazitoloji Derneği, Yayın No:19. |
| 8 | Schmidt, G.D. (1985). Foundations of Parasitology.   |

| Week | Weekly Detailed Course Contents |   |
|------|---------------------------------|---|
| 1    | Theoretical                     | Clinical symptoms that can be seen in the important trematode infections                      |
|      | Practice                        | Film screening related to Fasciola and Dicrocoelium infections in ruminants                   |
| 2    | Theoretical                     | Methods can be used in stool examination for trematod eggs.                                   |
|      | Practice                        | Laboratory practice related theoretical course  |
| 3    | Theoretical                     | Morphological differentiation criteria for trematode eggs and egg counting techniques         |
|      | Practice                        | Laboratory practice related theoretical course  |
| 4    | Theoretical                     | Examination in terms of trematode of the liver at autopsy and parasites collection techniques |
|      | Practice                        | Laboratory practice related theoretical course  |
| 5    | Theoretical                     | The differential morphologic criteria in adult trematodes.                                    |
|      | Practice                        | Laboratory practice related theoretical course  |
| 6    | Theoretical                     | Be relaxation, killing and curing of mature trematodes.                                       |
|      | Practice                        | Laboratory practice related theoretical course  |
| 7    | Theoretical                     | Flattening procedure of mature trematodes.  |
|      | Practice                        | Laboratory practice related theoretical course  |
| 8    | Intermediate Exam               | Midterm exam  |
| 9    | Theoretical                     | Be killing and fixing fragile mature and larval trematod.                                     |
|      | Practice                        | Laboratory practice related theoretical course  |
| 10   | Theoretical                     | Cyst removal methods of live larval trematodes  |
|      | Practice                        | Laboratory practice related theoretical course  |
| 11   | Theoretical                     | Technique of painting with Mayer's hematoxylin for painting of trematodes , and mounted.      |



|    |             |   |
|----|-------------|---|
| 11 | Practice    | Laboratory practice related theoretical course  |
| 12 | Theoretical | Technique of painting with Mayer's Carmalum for painting of trematodes , and mounted. |
|    | Practice    | Laboratory practice related theoretical course  |
| 13 | Theoretical | Solutions and storage techniques in adult trematodes that can be used to store.       |
|    | Practice    | Laboratory practice related theoretical course  |
| 14 | Theoretical | ) Molecular techniques that can be used in the diagnosis of trematode I               |
|    | Practice    | Laboratory practice related theoretical course  |
| 15 | Theoretical | ) Molecular techniques that can be used in the diagnosis of trematode II              |
|    | Practice    | Laboratory practice related theoretical course  |
| 16 | Final Exam  | Final examination   |
| 17 | Final Exam  | Final examination   |

### Workload Calculation

| Activity                              | Quantity | Preparation | Duration | Total Workload |
|---------------------------------------|----------|-------------|----------|----------------|
| Lecture - Theory                      | 14       | 0           | 2        | 28             |
| Lecture - Practice                    | 14       | 0           | 2        | 28             |
| Assignment                            | 2        | 0           | 2        | 4              |
| Reading                               | 14       | 0           | 2        | 28             |
| Quiz                                  | 1        | 5           | 0.5      | 5.5            |
| Midterm Examination                   | 1        | 15          | 1        | 16             |
| Final Examination                     | 1        | 15          | 1        | 16             |
| Total Workload (Hours)                |          |             |          | 125            |
| [Total Workload (Hours) / 25*] = ECTS |          |             |          | 5              |

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

|   |  |
|---|--|
| 1 | Knows that clinical signs in trematode infections of animals                       |
| 2 | Knows that diagnostic methods and distinguish criteria of trematode eggs in faeces |
| 3 | Knows that the diagnosis of adult trematodes and methods for collecting in organs. |
| 4 | Knows that about the methods of diagnosis, painted and store of adult trematodes.  |
| 5 | Know how to treat animals infected with these parasites.                           |

### Programme Outcomes (Parasitology (Veterinary Medicine) Doctorate)

|    |  |
|----|--|
| 1  |  |
| 2  |  |
| 3  |  |
| 4  |  |
| 5  |  |
| 6  |  |
| 7  |  |
| 8  |  |
| 9  |  |
| 10 |  |
| 11 |  |
| 12 |  |

### Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

|    | L1 | L2 | L3 | L4 | L5 |
|----|----|----|----|----|----|
| P1 | 5  | 5  | 5  | 5  | 5  |
| P2 | 3  | 4  | 5  | 5  | 5  |
| P3 | 3  | 4  | 4  | 4  |    |
| P4 | 2  | 3  | 3  | 3  |    |
| P5 | 3  | 3  | 3  | 4  | 4  |
| P6 | 4  | 4  | 4  |    |    |



|     |   |   |   |  |   |
|-----|---|---|---|--|---|
| P7  | 3 | 5 | 5 |  |   |
| P8  | 2 | 3 | 3 |  |   |
| P9  | 1 | 3 | 3 |  |   |
| P11 | 3 | 4 | 3 |  | 5 |

