



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

| | | | | | | | | | |
|--|---|---|----------------------|--|---|--------------------------------|---|------------|---|
| Course Title | | Immunity To Protozoal Infections | | | | | | | |
| Course Code | | VPR656 | | Course Level | | Third Cycle (Doctorate Degree) | | | |
| ECTS Credit | 4 | Workload | 100 (<i>Hours</i>) | Theory | 2 | Practice | 0 | Laboratory | 0 |
| Objectives of the Course | | The objective of this course, types of immunity to Protozoan Infections, factors the emerging in shaping of immunity, factors affecting to immunity in Protozoa | | | | | | | |
| Course Content | | Immunity to Protozoa, Immunity against the tissue and blood protozoa, preimmunity, type and duration of immunity, resistance to age, resistance to race, sterile immunity | | | | | | | |
| Work Placement | | N/A | | | | | | | |
| Planned Learning Activities and Teaching Methods | | | | Explanation (Presentation), Discussion, Case Study | | | | | |
| Name of Lecturer(s) | | | | | | | | | |

| Assessment Methods and Criteria | | |
|---------------------------------|----------|----------------|
| Method | Quantity | Percentage (%) |
| Midterm Examination | 1 | 20 |
| Final Examination | 1 | 60 |
| Quiz | 1 | 10 |
| Assignment | 4 | 10 |

| Recommended or Required Reading | |
|---------------------------------|--|
| 1 | TÜZER, E., TOPARLAK, M. (1999). Veteriner Protozooloji. İstanbul Üniversitesi Veteriner Fakültesi Ders Notu No:105. İstanbul |
| 2 | KAUFMANN, J. (1996). Parasitic Infections of Domestic Animals. Birkhäuser. Switzerland |
| 3 | PETERS, W., PASVOL, G. (2002). Tropical Medicine and Parasitology. Mosby International Limited. China |
| 4 | SOULSBY, E. J. L., (1986). Helminths, Arthropods and Protozoa of Domesticated Animals. William Cloves Limited. Great Britain |
| 5 | BURGU, A., KARAER, Z. (2005). Parazit Hastalıklarında Tedavi. Türkiye Parazitoloji Derneği, Yayın No:19 |
| 6 | ÖZCEL, M.A., İNCİ, A., TURGAY, N., KÖROĞLU, E. (2007). Tıbbi ve Veteriner Immunoparazitoloji, Türkiye Parazitoloji Derneği Yayınları, No:21, İzmir |
| 7 | SCHMIDT, G.D. (1985). Foundations of Parasitology |
| 8 | DUMANLI, N., KARAER Z. (2010). Veteriner Protozooloji. Medisan Yayınevi, Ankara |

| Week | Weekly Detailed Course Contents | |
|------|---------------------------------|--|
| 1 | Theoretical | Natural immunity and acquired immunity in protozoan infections |
| 2 | Theoretical | Escape the immune response to protozoan infections, to the adverse effects of immune response, vaccination |
| 3 | Theoretical | Cells and molecules that play a role in immunity to Protozoan infections |
| 4 | Theoretical | Immunity and vaccine studies to Trypanosomiasis |
| 5 | Theoretical | Immunity and vaccine studies of leishmaniasis in dogs |
| 6 | Theoretical | Immunity to Trichomonas, Histomonas, and Giardia infections |
| 7 | Theoretical | Immunity to Eimeria infections |
| 8 | Intermediate Exam | Midterm Examination |
| 9 | Theoretical | Immunity to Cryptosporidium infections |
| 10 | Theoretical | Immunity and vaccine studies to Toxoplasmosis |
| 11 | Theoretical | Immunity and vaccine studies to Neosporosis |
| 12 | Theoretical | Immunity and vaccine studies to Sarcosporidiosis |
| 13 | Theoretical | Immunity and vaccine studies to Babesia infections |
| 14 | Theoretical | Immunity and vaccine studies to Theileriosis infections |
| 15 | Theoretical | Discussion |

| Workload Calculation | | | | |
|----------------------|----------|-------------|----------|----------------|
| Activity | Quantity | Preparation | Duration | Total Workload |
| Lecture - Theory | 14 | 0 | 2 | 28 |



| | | | | |
|--|---|----|---|-----|
| Assignment | 4 | 4 | 1 | 20 |
| Reading | 1 | 5 | 2 | 7 |
| Quiz | 2 | 1 | 1 | 4 |
| Midterm Examination | 1 | 14 | 1 | 15 |
| Final Examination | 1 | 25 | 1 | 26 |
| Total Workload (Hours) | | | | 100 |
| [Total Workload (Hours) / 25*] = ECTS | | | | 4 |
| *25 hour workload is accepted as 1 ECTS | | | | |

Learning Outcomes

| | |
|---|---|
| 1 | Be equipped with general information about the immunity to parasitology |
| 2 | Types of immunity developed against Protozoa |
| 3 | Factors affecting to immunity in Protozoa |
| 4 | To have knowledge about the factors that appears during the immunity |
| 5 | To have knowledge about the ways to escape from the immune response in protozoa |

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 | 3 | 3 | 3 | 3 | 3 |
| P2 | 4 | 4 | 4 | 4 | 4 |
| P3 | 4 | 4 | 4 | 4 | 4 |
| P4 | 3 | 3 | 3 | 3 | 3 |
| P5 | 2 | 2 | 2 | 2 | 2 |
| P6 | 5 | 5 | 5 | 5 | 5 |
| P7 | 1 | 1 | 1 | 1 | 1 |
| P8 | 2 | 2 | 2 | 2 | 2 |
| P9 | 2 | 2 | 2 | 2 | 2 |
| P11 | 2 | 2 | 2 | 2 | 2 |

