# HISTOLOGY OF IMMUNE SYSTEM

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| 1 | Course Title: | HISTOLOGY OF IMMUNE SYSTEM | |
| 2 | Course Code: | VHE6018 | |
| 3 | Type of Course: | Optional | |
| 4 | Level of Course: | Third Cycle | |
| 5 | Year of Study: | 1 | |
| 6 | Semester: | 2 | |
| 7 | ECTS Credits Allocated: | 3.00 | |
| 8 | Theoretical (hour/week): | 2.00 | |
| 9 | Practice (hour/week): | 0.00 | |
| 10 | Laboratory (hour/week): | 0 | |
| 11 | Prerequisites: | None | |
| 12 | Language: | Turkish | |
| 13 | Mode of Delivery: | Face to face | |
| 14 | Course Coordinator: | Prof. Dr. HATICE ERDOST | |
| 15 | Course Lecturers: | Prof. Dr. Hatice ERDOST | |
| 16 | Contact information of the Course Coordinator: | Mail:edost@ uludag.edu.tr<br>Uludağ Ünv. Veteriner Fak. Histoloji Embriyoloji Anabilim Dalı | |
| 17 | Website: | http://www.veteriner.uludag.edu.tr | |
| 18 | Objective of the Course: | To understand the normal structure and functions of immune systems cells and organ systems in the domestic animals and chicken comparatively. | |
| 19 | Contribution of the Course to Professional Development: | | |
| 20 | Learning Outcomes: | | |
| | | 1 | Learn the terminology of the immune system cells |
| | | 2 | Learns the immune system organs |
| | | 3 | Define the cellular properties of lymphoid tissue in a healthy light microscopy |
| | | 4 | Can distinguish different staining techniques |
| | | 5 | Can identify different immun cells of tissue slides |
| | | 6 | acquire knowledge to form basis for immunology. |
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| 21 | Course Content: | | |

**Course Content:**

| Week | Theoretical | Practice |
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| 1 | Lymphatic tissue and the immune response | |
| 2 | Organization of the immune lymphatic system | |

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| **3** | Primary and secondary lymphatic organs and tissues | |
| **4** | Cells of the lymphatic system | |
| **5** | The structure of lymph nodes | |
| **6** | The function of Lymph nodes | |
| **7** | Diffuse lymphatic tissue, Gut associated Lymphoid Tissue | |
| **8** | Bronchus associated Lymphoid tissue, Conjuctiva associated Lymphoid tissue, skin associated Lymphoid tissue | |
| **9** | The structure of Tonsils | |
| **10** | Thymus, The development of the thymus, | |
| **11** | The stucture of the thymus, the function of the thymus | |
| **12** | The sturucture of the Bursa fabricius, the function of the Bursa fabricius | |
| **13** | Spleen, splenic sirculation, functions of the spleen | |
| **14** | Hemal nodes, hemolymp nodes | |

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| **22** | Textbooks, References and/or Other Materials: | 1-Applied Veterinary Histology, William J. Banks, 1986, USA<br>2-Histology and Cell Biology an Introductıon to Pathology, Abraham L. Kierszenbaum, Mosby, 2002<br>3- Histology a Text and Atlas, Williams and Wilkins, 1995, |

| Activites | Number | Duration (hour) | Total Work Load (hour) |
|---|---|---|---|
| Theoretical | 14 | 2.00 | 28.00 |
| Practicals/Labs | 0 | 0.00 | 0.00 |
| Self study and preperation | 14 | 2.00 | 28.00 |
| Homeworks | 2 | 10.00 | 20.00 |
| Projects | 0 | 0.00 | 0.00 |
| Field Studies | 0 | 0.00 | 0.00 |
| Midterm exams | 0 | 0.00 | 0.00 |
| Others | 2 | 3.00 | 6.00 |
| Final Exams | 1 | 10.00 | 10.00 |
| Total Work Load | | | 92.00 |
| ECTS Credit of the Course | | | 3.00 |

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| **23** | Assesment |
| | Measurement and Evaluation Techniques Used in the Course |
| **24** | **ECTS / WORK LOAD TABLE** |

| **25** | **CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS** | | | | | | | | | | | | | | | |
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| | **PQ1** | **PQ2** | **PQ3** | **PQ4** | **PQ5** | **PQ6** | **PQ7** | **PQ8** | **PQ9** | **PQ10** | **PQ11** | **PQ12** | **PQ13** | **PQ14** | **PQ15** | **PQ16** |
| **ÖK1** | 4 | 5 | 3 | 5 | 5 | 5 | 4 | 4 | 3 | 5 | 4 | 0 | 0 | 0 | 0 | 0 |
| **ÖK2** | 5 | 4 | 4 | 4 | 5 | 3 | 5 | 3 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 |
| **ÖK3** | 5 | 5 | 5 | 3 | 3 | 4 | 4 | 5 | 4 | 5 | 4 | 0 | 0 | 0 | 0 | 0 |

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| **ÖK4** | 5 | 4 | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 4 | 0 | 0 | 0 | 0 | 0 |
| **ÖK5** | 4 | 4 | 5 | 5 | 4 | 4 | 5 | 3 | 3 | 5 | 5 | 0 | 0 | 0 | 0 | 0 |
| **ÖK6** | 5 | 4 | 4 | 4 | 5 | 3 | 5 | 3 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 |

**LO: Learning Objectives PQ: Program Qualifications**

| **Contribution Level:** | **1 very low** | **2 low** | **3 Medium** | **4 High** | **5 Very High** |
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