# HORMONAL MECHANISMS IN ANIMALS

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| **1** | Course Title: | HORMONAL MECHANISMS IN ANIMALS | |
| **2** | Course Code: | BIO6515 | |
| **3** | Type of Course: | Compulsory | |
| **4** | Level of Course: | Third Cycle | |
| **5** | Year of Study: | 1 | |
| **6** | Semester: | 1 | |
| **7** | ECTS Credits Allocated: | 5.00 | |
| **8** | Theoretical (hour/week): | 3.00 | |
| **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. SIBEL TAŞ | |
| **15** | Course Lecturers: | | |
| **16** | Contact information of the Course Coordinator: | smeral@uludag.edu.tr | |
| **17** | Website: | | |
| **18** | Objective of the Course: | Functions and control mechanisms of the hormones secreted by the endocrine glands, investigation of relations between the hypothalamus and the pituitary gland. | |
| **19** | Contribution of the Course to Professional Development: | | |
| **20** | Learning Outcomes: | | |
| | | **1** | To describe the control mechanisms in animals |
| | | **2** | To describe“hormone-by-hormone” approach. |
| | | **3** | To know the relationship between hormone-reseptor |
| | | **4** | To describe the chemical structure hormones |
| | | **5** | To describe the function of the endocrine hormones |
| | | **6** | To learn hypothalamic control of the pituitary gland, |
| | | **7** | To describe the hormones secreted by adenohypopohysis and neurohypophysis |
| | | **8** | To describe some of the consequences of disruption of normal levels of endocrine hormones. |
| | | **9** | To learn endocrine system disease |
| | | **10** | |
| **21** | Course Content: | | |

| | **Course Content:** | |
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| Week | Theoretical | Practice |
| **1** | The structure of the hormone and second messengers | |
| **2** | Pituitary hormones, relations between the hypothalamus and the pituitary gland, | |

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| **3** | Growth hormone and function ,the disease is caused by the hyper and hyposecretion of growth hormones | |
| **4** | The thyroid gland and its hormones | |
| **5** | The adrenal cortex and its hormones, | |
| **6** | The adrenal medulla and its hormones | |
| **7** | ,The hormones secreted by the pancreas- | |
| **8** | Diabetes mellıtus | |
| **9** | Parathyroid gland | |
| **10** | Calcium and hormone regulation | |
| **11** | Gonads, male sex hormones, | |
| **12** | Female sex hormones | |
| **13** | Pregnancy and lactation | |
| **14** | Other sources of hormones | |

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| **22** | Textbooks, References and/or Other Materials: | MedicalPhysiology,:Arthur C Guytonand John E Hall, 2010<br>MedicalPhysiology; William F Ganong, 2010<br>Human anatomyandPhysiology; Robert Carola, John P Harley, Charles R Noback, 2002<br>Biological Science; I,II; William T. Keeton, James L Gould, 1999 |

| Activites | | | Number | Duration (hour) | Total Work Load (hour) |
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| TERM LEARNING ACTIVITIES | NUMBER | WEIGHT | | | |
| Theoretical | | | 14 | 3.00 | 42.00 |
| Practicals/Labs | | | 0 | 0.00 | 0.00 |
| Quiz | 0 | 0.00 | 14 | 2.00 | 28.00 |
| Homeworks | | | 5 | 10.00 | 50.00 |
| Final Exam | 1 | 100.00 | 0 | 0.00 | 0.00 |
| Projects | | | 0 | 0.00 | 0.00 |
| Field Studies | | | 0 | 0.00 | 0.00 |
| Midterm Exams | | 0.00 | 0 | 0.00 | 0.00 |
| Others | | | 0 | 0.00 | 0.00 |
| Contribution of Term (Year) Learning Activities to Success Grade | | 0.00 | | | |
| Final Exams | | 1 | | 30.00 | 30.00 |
| Contribution of Final Exam to Success Grade | | 100.00 | | | |
| Total Work Load | | | | | 150.00 |
| Total work load / 30 hr | | | | | 5.00 |
| Measurement and Evaluation Techniques Used in the Course | | | | | |
| ECTS Credit of the Course | | | | | 5.00 |

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| **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** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ÖK2** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ÖK3** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ÖK4** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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| **ÖK5** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ÖK6** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ÖK7** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ÖK8** | 3 | 1 | 1 | 5 | 5 | 5 | 4 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **ÖK9** | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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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