

Course Information Sheet (in the structure according to Decree No. 614/2002 Coll.)

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| University: University of Prešov in Prešov | |
| Faculty: Faculty of Humanities and Natural Sciences | |
| Code: 2BIO/EROSJFYZC/22 | Title of Course: Animal and human physiology |
| Type, scope, and method of educational activities: Compulsory course | |
| Form of Study: Lecture/Laboratory | |
| Number of contact hours: 2/0/2 | |
| per week: 2/0/2 per level/semester: 26/0/26 | |
| Study method: combined | |
| Student workload: 180 hours | |
| Direct education: 40 hours | |
| Self-study: 80 hours | |
| Guided work: 60 hours | |
| Number of credits: 6 | |
| Semester: 5 th semester | |
| Degree/Level: 1 st degree | |
| Prerequisites: - | |
| Grading Policy (Assessment/Evaluation): Exam | |
| Written examination of laboratory during the semester | |
| Seminar paper | |
| Written test | |
| Assessment criteria: A: 100.00 - 90.00 %, B: 89.99 - 80.00 %, C: 79.99 - 70.00 %, D: 69.99 - 60.00 %, E: 59.99 - 50.00 %. FX: 49,99 % and below | |
| Aims and Objectives: | |
| Knowledge gained: | |
| The student will be able to: | |
| - demonstrate a general knowledge of animal and human physiology and gain a comprehensive picture of organismal function, | |
| - interpret the knowledge acquired about the individual components in terms of their functions, | |
| - explain and describe the principle of the functioning of the different systems, | |
| - investigate the functional interconnection of individual systems and physiological processes in terms of their integration and the regulation of the behaviour of animal organisms. | |
| Skills Acquired: | |
| The student will be able to: | |
| - demonstrate by posing and defending arguments the difference between the physiological functions of animals and humans, | |
| - design simple methods and procedures, | |
| - can actively gather information and use it to solve practical problems in the field. | |
| Competencies acquired: | |
| The student: | |
| - can identify and evaluate the ethical, social and other contexts of the problems being addressed, | |
| - to implement the application of the acquired knowledge, | |
| - have developed skills and abilities to continuously educate, | |
| - concretise methodological recommendations and their application in practice. | |
| Syllabus/Indicative Content: | |

An introduction to the subject of physiology. Molecules, energy, biosynthesis. Transport of substances across membranes. Physiology of systems of exchange of substances. Physiology of the digestive system. Physiology of the respiratory system. Physiology of the cardiovascular system. Physiology of the excretory system. Physiology of the sensory organs. Physiology of the coordinating systems (nervous and hormonal control). Homeostasis. Thermoregulation. Physiology of reproduction and development. Physiology of the locomotor system.

Suggested readings:

PORÁČOVÁ, J. a kol. 2014. Fyziológia živočíchov a človeka. FHPV PU v Prešove. 591s. ISBN 978-80-555-1150-4.

PORÁČOVÁ, J. a kol. 2014. Vybrané cvičenia z fyziológie živočíchov a človeka. FHPV PU v Prešove. 241s. ISBN 9788055511030.

ČALKOVSKÁ, A., 2010. Fyziológia človeka pre nelekárske študijné odbory. Martin: Osveta, 220s. ISBN 9788080633448.

KOVÁČIK, J. et al. 2012. Fyziológia živočíchov. Nitra: SPU. 178 s.

WARD, J., LINDEN, R., 2010. Základy fyziológie. Praha: Galen. 164s.

JAVORKA, K., 2006. Lekárska fyziológia. Osveta: Martin. 678 s. ISBN 8080632316.

PAULOV, Š., 1980. Fyziológia živočíchov a človeka. SNP, 648 s.

DRÁBEKOVÁ, J. a kol., 2003. Praktické cvičenie z fyziológie živočíchov a človeka. Nitra, 96s. ISBN 80-8050-646-9.

GREŠOVÁ a kol.: Praktické cvičenia z fyziológie I. 2015; I. Bračoková: Praktické cvičenia z fyziológie. Časť 2. 2002.

GUYTON AND HALL. Textbook of Medical Physiology 13th Edition, (12th, 11th).

Language of Instruction: Slovak language

Other course information: -

Grading history

Total number of assessed students:

| A | B | C | D | E | FX |
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Lecturer/Instructor:

prof. MVDr. Janka Poráčová, PhD., MBA, lecturer, examiner, practitioner

doc. RNDr. Vincent Sedlák, PhD., lecturer, practitioner, examiner

RNDr. Mária Konečná, PhD., practitioner

Last update: 20. apríla 2026

Approved by: doc. RNDr. Iveta Boroňová, PhD., guarantor