



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet: Subject Title:	Biologija človeka <i>Human Biology</i>
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Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Biologija, 1. stopnja		1	1

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. Vaje Lab. Work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
30			30		120	6

Nosilec predmeta / Lecturer:

Jeziki / Predavanja / Lecture:
Languages: Vaje / Tutorial:

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Prerequisites:

Vsebina:

Contents (Syllabus outline):

Pri obravnavi telesa se vseskozi prepletata funkcionalna anatomija in fiziologija posameznih organov.

During the course, the functional anatomy and physiology are the current way of discussing the human body.

- Uvod v zgradbo in delovanje človeškega organizma; homeostaza, regulacijski procesi
- Organizacijske ravni organizma: celica, tkivo, organ, organski sistem, organizem kot celota
- Koža
- Okostje, vezi, sklepi, nesklepne povezave
- Mišičje: ogrodno, srčno, gladko
- Živčevje: osrednje, obrobno; somatsko, vegetativno (simpatik, parasimpatik)
- Čutila
- Endokrini sistem, žleze z notranjim izločanjem
- Srčno-krvožilni sistem: kri, srce, krvne žile; cirkulacija: sistemski in mali krvni obtok, limfatski sistem
- Dihala: dihanje: zunanje, notranje, celično; dihalni plini
- Prebavila: presnova, prebava, prebavna cev, prebavne žleze
- Sečila: prvotni, drugotni seč
- Spolovila: urogenitalni sistem; menstrualni cikel; razvoj zarodka in ploda
- Zdravstvene težave v sodobni razviti družbi: debelost, rak, stres

- Introduction into the structure and function of the human body; homeostasis, regulation processes
- Organisational levels of the human body: cell, tissue, organ, organic system, organism as a whole
- Integumentary system
- Skeletal system, ligaments, articulations, joints
- Musculature: skeletal, heart-, smooth muscle
- Nervous system: CNS, peripheral nerves; somatic, autonomous nervous system (sympathetic, parasympathetic)
- Sensory system: sensory organs
- Endocrine system: endocrine glands
- Cardiovascular system: blood, heart, blood vessels, blood circulation: systemic, pulmonary, lymphatic system
- Respiratory system: pulmonary, tissue, cellular respiration, respiration gasses
- Digestive system: metabolism, digestion, digestion tract, digestive glands
- Urinary system: urogenital system, menstrual cycle; embryonal and fetal development
- Health and disease in developed modern society

- Človek v okolju, omejenost virov, uničevanje in onesnaževanje okolja; odgovornost za ohranjanje globalne biodiverzitete in nujnost zaradi lastnega preživetja.

- The man in its environments, resources limits, devastation and pollution of environments, responsibility for the maintenance of global biodiversity and its necessity for the survival.

Temeljni študijski viri / Textbooks:

- Mader, S.S., 2007: Human Biology. McGraw-Hill Education.

Cilji:

- Študenti se seznanijo s človeškim organizmom kot biotskim bitjem
- Spoznajo osnovne mehanizme kibernetkega delovanja organizma
- Seznanijo se s temeljno zgradbo in delovanjem posameznih organskih sistemov ter celotnega organizma
- Seznanijo se s pomenom razmerij med človeškim organizmom in okoljem

Objectives:

- Students get acquainted with the human organism as a biotic being
- Students get acquainted with the main mechanisms of the cybernetic functioning of the human organism
- They get basic knowledge of the structure and function of each organic system, and the organism as a whole
- They get acquainted with the significance of the interactions between the human organism and its environment

Predvideni študijski rezultati:

Intended learning outcomes:

Znanje in razumevanje:

- Poznajo osnovno zgradbo in delovanje posameznih organov, organskih sistemov ter celotnega organizma
- Razumejo pomen kakovostnega okolja ter nujnost aktivnosti za njegovo ohranjanje
- Razumejo pomen kulture za ohranitev civilizacije

Knowledge and Understanding:

- Students know the basic structure and function of each organ, organic system and the whole organism
- They understand the significance of quality environments and need for their active preservation
- They understand the meaning of culture in the maintenance of the civilisation

Prenesljive/ključne spretnosti in drugi atributi:

- Znajo anatomsko orientirati posamezne organe in opisati njihovo lego ter vlogo v organizmu
- Znajo splošno presojeti o ustreznosti oziroma neustreznosti konkretnih dejavnikov okolja za ohranjanje zdravja

Transferable/Key Skills and other attributes:

- They get skills to properly anatomically orient each organ and to describe their position and function within the organism
- They can generally judge the environmental factors for their appropriateness or inappropriateness, respectively, for the health maintenance

Metode poučevanja in učenja:

Learning and teaching methods:

- Predavanja
- Laboratorijske vaje
- Individualno delo

- Lectures
- Laboratory excersises
- Individual work

Načini ocenjevanja:

Delež (v %) /
Weight (in %)

Assessment:

<ul style="list-style-type: none"> • Kolokvij iz praktičnega dela • Seminarska naloga • Pisni izpit 	<p>20 % 20 % 60 %</p>	<ul style="list-style-type: none"> • Partial exam of experimental practice • Seminar essay • Written exam
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Materialni pogoji za izvedbo predmeta :

- Predavalnica
- Laboratorij
- Zbirke humanih preparatov in modelov

Material conditions for subject realization

- Lecture hall
- Laboratory
- Collections of human preparations and models

Obveznosti študentov:

(pisni, ustni izpit, naloge, projekti)

- Kolokvij iz praktičnega dela
- Seminarska naloga
- Pisni izpit

Students' commitments:

(written, oral examination, coursework, projects):

- Partial exam of experimental practice
- Seminar essay
- Written exam