

Module name	Functional human anatomy
Module code	AFRAG
ISCED code	0511: Biology
Study cycle	I ^o
Semester	winter
Responsible for this module	Piotr Dobrowolski Department: Functional Anatomy and Cytobiology email: piotr.dobrowolski@umcs.lublin.pl
Language of instruction	English
Website	
Prerequisites	Completed course in cell biology
ECTS	3.5
ECTS points hour equivalents	Contact hours (work with an academic teacher) – 60 - lectures: 30 - labs: 30 Non-contact hours (students' own work) – 45 - preparation for the exam: 15 - preparation for labs: 10 - preparation of reports from laboratory exercises: 10 - literature study: 10 Total number of ECTS points for the module – 3.5
Learning outcomes verification methods	On the basis of the UMCS Senate Resolution resolution No. XXII-39.6/12 of 25 April 2012, i.e. from the education cycle 2012/2013 Laboratory: written partial tests (W1-W5; U3; K1) oral presentation /activity during classes (W1-W5; U1-U3; K1-K2) Lecture: final test (W1-W5; U3; K1) participation in lectures (W1-W5; U3; K1) On the basis of the UMCS Senate Resolution resolution No. XXIV-27.18/19 of 29 May 2019, i.e. from the education cycle 2019/2020 Laboratory: written partial tests (W1-W5; U3; K1-K2) oral presentation /activity during classes (W1-W5; U1-U3; K1-K2) Lecture: final test (W1-W5; U3; K1) participation in lectures (W1-W5; U3; K1)
Course full description	the lectures: Human body: parts of the body, axes, planes and metamerism of the body. Body tissues. Topography, structure and function of organ systems: skeletal, muscular, digestive, respiratory, cardiovascular, urinary, reproductive, nervous, endocrine, the organs of the senses, integumentary system. Intraspecific differentiation. Elements of anthropology. the classes: Microscopic observation of different tissues: epithelial, muscular, connective and nervous. Macro- and microscopic observations of the structure of organs creating all the anatomical systems of human body: skeletal, muscular, digestive, respiratory, cardiovascular, urinary, reproductive, nervous, endocrine, the organs of the senses and integumentary system. Elements of anthropometry.

Bibliography	1 Drake, Vogl, Mitchell "Gray's Anatomy for Students"; 2 Abrahams, Boom, Spratt, Hutchings „Clinical Atlas of Human Anatomy”; 3 Fenneis "Pocket Atlas of Human Anatomy"; 4 Sobotta "Atlas of Human Anatomy".
Learning outcomes	Based on the Resolution of the UMCS Senate No. XXII-39.6 / 12 of April 25, 2012, i.e. from the 2012/2013 education cycle: KNOWLEDGE Recognizes basic processes occurring in living organisms at the molecular, cellular, and organism level KW_01 Identifies the relationships between the main disciplines of biology and other natural science disciplines, which facilitate understanding of the principles of organism function or provide a tool for interpretation and generalisation of acquired knowledge KW_04 Describes processes occurring in living organisms based on experiments, observations, and literature data KW_11 SKILLS Uses basic laboratory and field research tools and techniques applied in biology sciences K_U01 Makes simple field measurements and observations K_U03 Applies information techniques for description and interpretation of biological processes K_U06 Has an ability to prepare an oral presentation of specific biological issues K_U17 SOCIAL COMPETENCE Is able to assess knowledge and skills acquired at the undergraduate level and recognizes the need for continuous improvement of language skills and extending specialist and general knowledge K_K01 Adopts an active attitude towards acquisition, extension, and updating biological knowledge K_K03
Practice	Microscopic and macroscopic observations
Teaching methods	multimedia presentations, scientific discussion, explaining