



Subject card

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|---|--|---|-------------------------------------|------------|--|---------|-----|
| Subject name and code | Human Anatomy, PG_00064108 | | | | | | |
| Field of study | Mechanical and Medical Engineering | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | first-cycle studies | Subject group | | | Obligatory subject group in the field of study | | |
| Mode of study | Full-time studies | Mode of delivery | | | at the university | | |
| Year of study | 1 | Language of instruction | | | Polish | | |
| Semester of study | 1 | ECTS credits | | | 2.0 | | |
| Learning profile | general academic profile | Assessment form | | | assessment | | |
| Conducting unit | Institute of Mechanics and Machine Design -> Faculty of Mechanical Engineering and Ship Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | Edyta Spodnik | | | | |
| | Teachers | | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 30.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | Participation in consultation hours | | Self-study | SUM | |
| | Number of study hours | 30 | 1.0 | | 19.0 | 50 | |
| Subject objectives | Mastering the knowledge of the structure and functioning of the human body. | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | [K6_W01] has knowledge in the field of natural sciences, including mathematics, contemporary physics, chemistry, and human anatomy with physiology | The student describes the structure of individual organs and the systems they create. The student knows the structure and functioning of the eyesight and hearing organs. The student knows the physiological basis of muscle action and the action of muscles on joints. The student knows the structure and functioning of integrative systems - the circulatory system and the nervous system. | | | [SW1] Assessment of factual knowledge | | |
| | [K6_U01] is able to acquire knowledge and self-studying, he/she is able to find needed information in specialist books, databases and other sources, he/she is able to integrate information and draw conclusions, he/she is able to communicate by using different techniques in work and outside | The student is able to find the necessary information in professional literature, databases and other sources, as well as integrate information and formulate conclusions. | | | [SU2] Assessment of ability to analyse information | | |
| | [K6_U04] is able to utilize empirical, analytical, simulation, and computer-based methods to formulate and solve engineering tasks in the field of medical and mechanical engineering | The student knows the basic anatomical nomenclature. The student is aware of the role that organs play in these systems and the role of these systems for the functioning of the whole organism. | | | [SU3] Assessment of ability to use knowledge gained from the subject | | |

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| Subject contents | Skeletal system - general bone structure; skeleton of the limbs. Articular system - bone connections; ligaments. Muscular system - the muscles of the limbs; innervation of muscle groups. Fundamentals of the physiology of muscle activity. Mechanics of joints and the action of muscles on joints. Axial skeleton. Spine and chest. Torso and back muscles. Diaphragm. The mechanics of breathing. Somatic nervous system - structure of the spinal nerve; ganglia and nerves. Circulatory system I. Heart; heart conducting system; coronary vessels. Cardiovascular system II. General diagram of the circulatory system. Respiratory system. Alimentary system I. Alimentary canal. Digestive system II. The great glands of the digestive tract. Portal circulation. Genitourinary system. Head I. Skull; Venous sinuses of the dura mater. The muscles of the head. Temporomandibular joint. Cranial nerves: V; VII; IX; X; XI; XII. Head II. Sensory organs - eye; ear. Cranial nerves: I; II; III; IV; VI; VIII. Central nervous system - structure. Basic functional systems | | |
| Prerequisites and co-requisites | | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Colloquium | 60.0% | 100.0% |
| Recommended reading | Basic literature | Anatomia człowieka. Woźniak. Wyd 3. Red. M.Bruska, B.Ciszek, Edra 2019 | |
| | Supplementary literature | Anatomia Nettera do kolorowania JT.Hansen. Edra 2015 | |
| | eResources addresses | Adresy na platformie eNauczenie: Anatomia człowieka 2024/25 - Moodle ID: 35338 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=35338 | |
| Example issues/ example questions/ tasks being completed | Name the movements performed in the individual joints. Name the muscle groups that perform these types of movements. Describe the symptoms resulting from the loss of functions of individual muscle groups or damage to specific nerves. | | |
| Work placement | Not applicable | | |

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