

Subject card

| Subject name and code | Engineering problems in laryngology, PG_00055754 | | | | | | | |
|--|---|---|--|-------------------------------------|--|--|---------------|------------|
| Field of study | Mechanical and Medical Engineering | | | | | | | |
| Date of commencement of studies | October 2023 | | Academic year of realisation of subject | | | 2024/2025 | | |
| Education level | first-cycle studies | | Subject group | | | Obligatory subject group in the field of study Subject group related to scientific | | |
| | - " " | | | | | research in the field of study | | |
| Mode of study | Full-time studies | | Mode of delivery | | | at the university | | |
| Year of study | 2 | | Language of instruction | | | Polish | | |
| Semester of study | 4 | | ECTS credits | | | 1.0 | | |
| Learning profile | general academic profile | | Assessment form | | | assessment | | |
| Conducting unit | Institute of Mechanics | and Machine | | | ical Eng | ineerin | g and Ship Te | chnology |
| Name and surname | Subject supervisor Teachers | Waldemar Narożny | | | | | | |
| of lecturer (lecturers) | | Lecture | Tutorial | Laboratory | Droine | . | Seminar | SUM |
| Lesson types and methods of instruction | Number of study hours | 0.0 | 0.0 | Laboratory 15.0 | O.0 | , L | 0.0 | 15 |
| | E-learning hours inclu | ıded: 0.0 | | | | | ! | _ |
| Learning activity and number of study hours | Learning activity | Participation in classes include plan | | Participation in consultation hours | | Self-study | | SUM |
| | Number of study hours | 15 | | 1.0 | | 9.0 | | 25 |
| Subject objectives | Obtaining basic knowledge in the field of ENT, necessary in the work of a medical engineer. | | | | | | | |
| Learning outcomes | Course out | come | Subject outcome Method of verification | | | | | rification |
| | [K6_K02] he/she is aware of importance of professional dealing and to fulfill ethics obligations, he/she understands other (nontechnical) abilities of mechanical engineering professional, their influence on the society and security of environment, he/she is aware of importance of social cooperation | | The student is aware of the importance of professional conduct and compliance with the rules of professional ethics, understands the non-technical aspects of a mechanical engineer's activity | | | [SK5] Assessment of ability to solve problems that arise in practice | | |
| | [K6_W12] he/she has basic knowledge in the field of fundamental medical sciences, human body anatomy, and physiology, salvage service | | The student is aware of the importance of combining knowledge in the field of otolaryngology with the knowledge of the operation and use of basic equipment and medical devices | | | [SW1] Assessment of factual knowledge | | |
| [K6_U10] he/she is able to assess the human body physic and basic functioning of the body organs, he/she is able to use basic medical knowledge to solve mechanical-medical problems in the scope of the MME study | | The student is able to describe the structure of the human body and the functioning of the head and neck organs to a basic degree. He can explain the principles of operation of the organs of the head and neck to the extent that allows to combine medical knowledge with the knowledge of the polytechnic | | | [SU3] Assessment of ability to use knowledge gained from the subject | | | |
| Subject contents | Physiology, pathophysiology of the basic diseases of the ear, nose, throat, larynx. Urgency in otolaryngology. Basic procedures in otolaryngology. Basic instruments in the diagnosis and surgical treatment of head and neck diseases. | | | | | | | |
| Prerequisites and co-requisites | Basic knowledge of the anatomy of the head and neck. Basic information on the construction of diagnostic devices in medicine. | | | | | | | |

Data wydruku: 19.05.2024 09:48 Strona 1 z 2

| Assessment methods | Subject passing criteria | Passing threshold | Percentage of the final grade | | | |
|--|--|---|-------------------------------|--|--|--|
| and criteria | | i assing theshold | , , | | | |
| | Assessment work – written | 50.0% | 50.0% | | | |
| | Final credit – oral | 50.0% | 50.0% | | | |
| Recommended reading | Basic literature | Niemczyk K. Wykłady z otolaryngologii. MedPage, 2012 | | | | |
| | Supplementary literature | lwaszkiewicz J. Otolaryngologia dla studentów medycyny . PZWL 1967. | | | | |
| | eResources addresses | Adresy na platformie eNauczanie: | | | | |
| Example issues/ example questions/ tasks being completed | Surgical drills used in otolaryngology - structure, principle of operation. Medical lasers used in otolaryngology - structure, principle of operation, the most common causes of failure. Da Vinci robot in otolaryngology - indications, structure, principle of operation. Endoscopes in otolaryngology - structure, principle of operation. Devices for heating the laryngeal mirror - prototype. | | | | | |
| Work placement | Not applicable | | | | | |

Data wydruku: 19.05.2024 09:48 Strona 2 z 2