Module description: Fundamentals of Medicine

Module Code	t.BA.MI.MED.23HS
ECTS Credits	4
Language of Instruction/Examination	German
Organizational Unit	IEM Ltg.
Module Coordinator	Martina Spiess
Legal Framework	The module description is part of the legal basis in addition to the general academic regulations. It is binding. During the first week of the semester a written and communicated supplement can specify the module description in more detail.
Module Characteristic	Type 2a 4 consecutive lecture lessons per semester week and class
Module Description	This course provides first-semester students in the BSc Medical Informatics program with an overview of topics they will encounter in their professional everyday life. Two main goals are pursued: The MI students are able to have a conversation with people in the healthcare sector and understand the relevant terminology. The MI students largely understand what the data they work with represent in clinical practice. Through this understanding, they are able to correctly interpret data and results of calculations and discuss them with healthcare professionals. The lecture primarily imparts knowledge about the anatomy and physiology (structure and function) of the human body. The instruction is essentially based on the book "The Human Body. Schünke M, Faller A, 18th unchanged edition. Stuttgart: Thieme; 2020. doi:10.1055/b000000452" (Link opens in a new window), which is available to all students in electronic form through the ZHAW library. The course includes 15x4 lessons (45h) of contact teaching, with some lessons being delivered virtually. Additionally, students will invest 75h in self-study. The module concludes with a written examination (on Moodle, but on-site).
Module Content	• Please find more information on Moodle: Kurs: 2024 BSc Medizininformatik - Grundlagen der Medizin
Prerequisite Knowledge	

Module description: Fundamentals of Medicine

Learning Objectives (Competences)	Students...	Competencies	Taxonomies
	Students can name structures of the human body in the following areas and explain their function: 1) Cytology, Genetics, and Evolution 2) Histology, Blood, Immune System, and Lymphatic Organs 3) Nervous System and Hormonal System, Sensory Organs 4) Musculoskeletal System 5) Cardiovascular System 6) Respiratory System 7) Digestive System 8) Kidneys and Urinary Tract 9) Reproductive Organs, Reproduction, Development, and Birth 10) Skin and Skin Appendages	F	K2
	Students can use their knowledge of physiological functions to classify pathological processes and thus recognize which symptoms arise when a particular structure and its function are damaged. Conversely, students are able to deduce a cause from specific symptoms.	F	K3, K5
	Students are able to either write a text themselves, taking into account the rules of inclusive and professional medical language, or analyze and explain a written text concerning these rules.	F	K3, K6
	Students can recite various definitions of "health." They can explain the differences and the consequences of using different definitions. Additionally, they can name and explain internationally used models of health and disease/impairments/disabilities.	F	K1, K2
	Students can explain the "International Classification of Functioning, Disability and Health" model (ICF model) as well as the "International Classification of Diseases" (ICD-11). Therefore, students are also able to assign individual terms to the corresponding domains of the ICF and to find ICD-11 codes for individual diseases.	F	K2, K3

Performance Assessment

End-of-module exam	Assessment	Length (min.)	Weighting	Form
written exam	Grade	120	60	acc. to module agreement

Performance assessment during the semester	Assessment	Length (min.)	Weighting	Form
Assignments	Grade		40	acc. to module agreement

Classroom Attendance Requirement

None

This class primarily takes place on-site, and you are generally expected to attend in person. Attendance is not mandatory, but all content, including anything mentioned verbally, is relevant for the exam. Students who attend the class are asked to prepare for the lessons according to the guidelines in Moodle and to actively participate in the class.

Learning material

Comments