GENERAL INFORMATION		
Course name	**Neurorehabilitation and Restorative Neurology**	
Course director	**Prof. Silva Butković Soldo, MD, PhD**	
Assistants	Prof. Davor Jančuljak, MD, PhD Nenad Koruga, MD, PhD Anamarija Soldo Koruga, MD	
Study program	**Integrated undergraduate and graduate university study program Medical Studies in German**	
Course status	Elective	
Year of study, semester	6th year, 11th semester	
Credits allocated and form of instruction	ECTS student workload	**1**
	Number of teaching hours (L+S+E)	**15** (5+5+5)

COURSE DESCRIPTION

Course objectives

Neurorehabilitation is a process aimed at training people with a neurologic deficit, for the purpose of achieving and maintaining the best physical, sensory, intellectual, psychological and social level and achieving the highest possible level of independence. Neurorehabilitation and restorative neurology elective course will provide medical students with a unique multidisciplinary insight into basic neurological conditions, key principles, dynamics of implementation and the latest algorithms of early and continuous neurorehabilitation processes. Students will gain insight into the organization and work of a multidisciplinary team, as well as the processes of clinical evaluation of neurorehabilitation processes and the assessment scale used in the mentioned process.

Course requirements

There are no specific requirements for this course except those defined in the study program curriculum.

Expected learning outcomes *(5-10 learning outcomes)*

Knowledge

1. Knowledge of basic pathophysiological mechanisms and clinical characteristics of certain groups of neurological diseases
2. Knowledge of the key principles, dynamics of implementation and methods applicable in neurorehabilitation processes
3. Knowledge of the methods of creating an individualized neurorehabilitation plan, as well as the establishment of a multidisciplinary team based on it
4. Knowledge of evaluation methods and assessment scales for assessing and monitoring the course of neurorehabilitation
5. Mastering the basic communication skills necessary for working in a team, working with patients and their families
6. Neurorehabilitation in the community – understanding and the possibility of creating a plan along with the evaluation of social aspects

Skills

1. Communication skills in working with a multidisciplinary team, as well as the patient and the family

2. Conduction and implementation of basic assessment scales on the basis of good clinical practice for assessment of the initial status and course of neurorehabilitation

Course content

Knowledge of the basic groups of neurological diseases (pathophysiology, diagnostic criteria, clinical picture, diagnostics, neurological status), knowledge of assessment scales depending on the clinical problem/disease (application and selection of certain scales for evaluation and their conduction), knowledge of function and role of certain members of a multidisciplinary team, mastering basic communication skills for working in a team and with a patient, methods of neurorehabilitation (key principles, dynamics of implementation and algorithms), robotics in neurorehabilitation

Form of instruction	☒lectures ☒seminars and workshops ☒exercises ☐distance learning ☐field course	☒individual assignments ☒multimedia and Internet ☐laboratory ☐mentoring activities ☐other

Student obligations

Come to class prepared by studying the recommended literature for each unit and actively participate in all forms of instruction. The student must participate in at least 70% of classes to pass the course. Missed exercises and seminars must be compensated by sitting for an exam.

Monitoring student learning

Attendance	x	Active participation	x	Seminar paper		Experimental work	
Written exam		Oral exam		Essay		Research	
Project		Continuous assessment		Paper		Practical work	x
Portfolio							

Assessment and evaluation of students during class and on the final exam

Students' performance will be evaluated during class and on the final exam. Students are evaluated numerically and descriptively (insufficient (1), sufficient (2), good (3), very good (4), excellent (5)). During classes, a student can earn a maximum of 100 points. Students can earn a maximum of 20 points during classes through different types of activities. On the final exam, students can earn a maximum of 80 points. The final grade represents the sum of the points earned during classes and on the final exam.

Mandatory reading

1. Sitzer M, Steinmetz H. Lehrbuch Neurologie. Elsevier,Urban&FischerVerlag; 2011

Additional reading

1. van der Brugge. Neurorehabilitation bei Erkrankungen des zentralen Nervensystems (Lehrbuch in einem band; 2017)
2. Hacke. Neurologie (Springer-Lehrbuch) (German Edition) (German) 14., überarb. Aufl. 2016 Edition

The number of copies of mandatory reading in proportion to the number of students currently taking this course

Title	*Number of copies*	*Number of students*
Sitzer M, Steinmetz H. Lehrbuch Neurologie. Elsevier,Urban&FischerVerlag; 2011	A purchased license for online textbooks shall be used https://bfdproxy48.bfd-online.de/login.htm?back=http%3a%2f%2fpartner.bfd-online.info.bfdproxy48.bfd-online.de%2fameos%2fbfdAboGateway%3faboId%3d264117	

	Access will be granted to all students enrolled in the study program
Quality monitoring methods ensuring the acquisition of knowledge upon completion, skills and competences	
The quality of course performance is monitored through an anonymous student survey on the quality of the organization and conduction of classes, the course content and the work of professors. The usefulness of the lectures from the students' perspective, the curriculum content, the professor preparedness, the clarity of the presentation, the amount of new content and the quality of the presentation are evaluated. The curriculum and its execution are administratively compared. The participation of students in lectures and exercises, as well as the excuses for missing classes, are controlled and analyzed.	