

COURSE DESCRIPTION

Academic year: 2023/2024	
University: Comenius University Bratislava	
Faculty: Faculty of Pharmacy	
Course ID: FaF.KGF/13-Bc/22	Course title: Medical Devices III.
Educational activities: Type of activities: lecture Number of hours: per week: 2 per level/semester: 28 Form of the course: on-site learning	
Number of credits: 5	
Recommended semester: 3.	
Educational level: I.	
Prerequisites:	
Recommended prerequisites: KGF/11-Bc/00 Medical Devices I, KGF/12-Bc/00 Medical devices II	
Course requirements: Attendance at lectures is mandatory. During the semester, students take 2 intermediate assessment tests, for the recognition of their knowledge by the test to meet 60% at least from the maximum number of points required. Successful completion of the semester is followed by a final semester oral exam. Student must demonstrate mastery of at least 60 % of required knowledge. The knowledge assessment is according to a scale: A (92% at least), B (83% at least), C (76% at least), D (68% at least), E (60% at least) and Fx (less than 60% of the maximum number of points).	
Learning outcomes: The student acquires knowledge about the specifics of medical devices made of metal or plastic materials. He/she can characterize the material, its properties, knows the method of production, understands the importance and methodology of use in relevant medical disciplines, e.g., surgery, orthopaedics, internal medicine, dentistry, etc. In addition to traditional materials, he/she is acquainted with new types of materials (e.g., nanomaterials), as well as with the methods of their acquisition or production (natural and synthetic polymers). Can evaluate their quality, safety, and effectiveness of use in medical - preventive health care.	
Class syllabus: <ul style="list-style-type: none"> • MDs made of metal, classification by material and properties, understanding methods of production and control of their functionality. • Description and characteristics of basic surgical instruments, special surgical tools, including instruments for mini-invasive procedures and metal implants. • Other surgical material. Surgical suture material, sewing needles. Absorbable, non-absorbable surgical suture material. • Sterilization and storage of surgical suture material. • Method of protection of metallic materials suitable for production - means against corrosion. • MDs from polymers and plastics. Implants in healthcare. Diagnostic medical devices. 	

Recommended literature:

Ducháček, D., Hrdlička, Z. 2009. Gumárenské suroviny a jejich zpracování. Praha: VŠCHT skriptá VŠ, 2009. Kapitoly 1., 3., 5., 200 s. EAN: 9788070807132

Beňačka, J., Beňačka, O. 2022. Point of care - urgentná sonografia. Herba, 2022. 128 s. ISBN 978-80-8229-018-2

Czakó, L., Vavro, M., Šimko, K a kol. Orálna a maxilofaciálna chirurgia v kocke - otázky a odpovede. Herba, 2022. 136 s. ISBN 978-80-8229-019-9

P. Ihnát, P. 2017. Základní chirurgické techniky a dovednosti. Grada, 2017, ISBN: 978-80-271-9625-8

Liptáková, T., Alexy, P., Gondár, E., Khunová, V. 2012. Polymérne konštrukčné materiály. EDIS vydavateľstvo SJF vysokoškolská učebnica, 189 s. ISBN 978-80-554-0505-6

Languages necessary to complete the course:

Slovak

Notes:**Past grade distribution**

Total number of evaluated students: 1

A	ABS	B	C	D	E	FX
0,0	0,0	100,0	0,0	0,0	0,0	0,0

Lecturers: Mgr. Jana Selčanová, PharmDr. Mária Čuchorová, PhD., Ing. Silvia Molnárová, PhD. Eva Nováková, PharmDr. Janka Kubíková, PhD., MPH

Last change: 17.02.2023

Approved by: doc. Mgr. Martina Hrčka Dubníčková, PhD.