

COURSE GUIDE – short form

Academic year 2017 - 2018

Course name ¹	MATERIALS FOR IMPLANTOLOGY					Codul disciplinei	4 SM 13		
Course type ²	DS	Category ³	DO	Year of study	4	Semester	8	Number of credit points	5

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴					
Field	Materials Engineering	Total	L	T	LB	P	IS
Specialization	SM	56	28	-	-	28	

Pre-requisites from the curriculum ⁵	Compulsory	
	Recommended	

General objective ⁶	This course introduces the most important materials used for medical implants.
Specific objectives ⁷	Acquiring some notions about the structure of harsh tissues in the human body. Knowledge of the most important types of biomaterials used as implants. Obtaining concepts related to designing, obtaining and behaving in exploitation of different types of biomaterials. Understanding the phenomena that occur at the implant - tissue interface.
Course description ⁸	Structure of harsh tissues in the human body. Types of biomaterials used in medical applications. Bone prostheses. Articulated and dental prostheses. Materials used to achieve total hip prostheses. Materials for dental implants.

Assessment		Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
Continuous assessment	Class tests along the semester -	week	%
	Activity during tutorials/laboratory works/projects/practical work		40 %
	Assignments -	week	%
Final assessment	Final assessment form ¹¹	exam	60 % (minimum 5)
	Examination procedures and conditions: 1. Subject with closed questions ; tasks answer to open questions ; working conditions oral; percent 50 %; 2. Subject with closed questions ; tasks answer to open questions ; working conditions oral; percent 50 %; 3. - ; tasks - ; working conditions - ; percent %;		

Course organizer	Lecturer Ph.D. Eng. Manuela-Cristina PERJU
Teaching assistants	As.Ph.D.Stud.Eng. Dumitru-Doru BURDUHOS-NERGIS

¹Course name from the curriculum

² DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum)

³ DI – imposed, DO – optional, DL – facultative (from the curriculum)

⁴ Points 3.8, 3.5, 3.6a,b,c, 3.7 from the Course guide – extended form (L-lecture, T-tutorial, LB-laboratory works, P-project, IS-individual study)

⁵ According to 4.1 – Pre-requisites - from the Course guide – extended form

⁶ According to 7.1 from the Course guide – extended form

⁷ According to 7.2 from the Course guide – extended form

⁸ Short description of the course, according to point 8 from the Course guide – extended form

⁹ For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period

¹⁰ A minimum grade might be imposed for some assessment stages

¹¹ Exam or colloquium