COURSE GUIDE – short form
Academic year 2021-2022

Course name[1]	MATERIALE SEMICONDUCTOARE					Course code	4SM12DS	
Course type[2]	DO	Category[3]	DS	Year of study	IV	Semester	7	Number of credit points	2

		Number of teaching and learning hours[4]					
Faculty	Materials Science and Engineering						
Field	Materials engineering	Total	L	T	LB	P	IS
Specialization	Materials science	50	14	-	14	-	22

Pre-requisites from the curriculum[5]	Compulsory	not necessary
	Recommended	not necessary

General objective [6]	Obtaining technology aspects, properties and intended use of electronic materials and devices.
Specific objectives[7]	• Learning theoretical knowledge related to physical and chemical phenomena, based on materials proprieties used for electronic devices. • Achieving the ability to research and analyze electronic materials using a variety of research methods.
Course description[8]	The structure of the atom Electron occupation of atomic orbits. Electronic configuration Electro-magnetic properties of metallic materials. Soft ferromagnetic materials with normal hysteresis cycle. Nickel-iron alloys (perm-alloys). Iron-cobalt and iron-cobalt-nickel alloys. Ferromagnetic materials (soft ferrites). Hard magnetic materials. Metallic conductive materials. Semiconductors.

Assesment			Sche-dule[9]	Percentage in the final grade (minimum grade)[10]
A. Final assessment form[11]: colloquium	Class tests along the semester	%		50%
	Home works	%		
	Other activities	%		
	Examination procedures and conditions: Probe 1: Oral evaluation with 2 open answer questions;	100%	week 14	
B. Seminar	Activity during seminar			0%
C. Laboratory	Acttvity during laboratory			50 %
D. Project	Activity during project			0%

Course organizer	Prof. dr. eng. Sergiu STANCIU	
Teaching assistants	Șef.lucr. dr.eng. Daniela CHICET	

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[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