University POLITEHNICA of Bucharest

Faculty of Industrial Engineering & Robotics

Study programme: Industrial Engineering

Form of study: Bachelor

COURSE SPECIFICATION

Course title	Materials Technology	Semester	4
Course code	UPB.06.D.04.O.002	ECTS	5

Course structure	Lecture	Seminar	Laboratory	Project	Total hours
No. of hours/ week	2	-	2	-	4
No. of hours/ semester	28	-	28	-	56

Lecturer	Lecture	Seminar	Laboratory	Project
Name, academic	Rindasu Viorel, Assoc prof	-	Rindasu	-
degree			Viorel,	
			Assoc prof	
Contact (E-mail,	viorel.rindasu@gmail.com			
location)	CE206			

Course description (max: 200 words) The course offers the general training in primary manufacturing processes (for obtaining metals, ceramics, plastics, composites), giving competencies in modern technologies practice

Seminar description (max: 200 words) -

Laboratory description (max. 200 words) The lab presents some principal manufacturing properties of engineering materials, as well as the main manufacturing processes (casting, forging, welding, machining, testing) based on it

Project description (max. 200 words) -

Assessment methods	Percentage of the final grade	Minimal requirements for award of credits
Written exam	20 + 20	
Report/ Project		
Homework	10	
Laboratory	50	

References

1. Groover, M., P., Fundamentals of Modern Manufacturing. Materials, Processes and Systems, 4th Edition, John Wiley & Sons, Inc., 2010

2. Boothroyd, G., Dewhurst, P., Knight, W., A., Product Design for Manufacturing and Assembly, 3rd Edition, CRC Press, 2011

Prerequisites	Co-requisites (courses to be taken in parallel as a condition for enrolment)	
Maths, Physics, Materials science	Strength of Materials	

Additional relevant information:	
Additional relevant inioniation.	

Date: 16.05.2022