C O U R S E G U I D E – s h o r t f o r m

Academic year 2024 - 2025

Course name[1]	**MANUFACTURING ENGINEERING / COMPUTER AIDED CONCEPTS AND MANUFACTURING**					Discipline code		4 IPM 14	
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	IPM	**125**	**28**	**-**	**-**	**28**	**69**

Pre-requisites from the curriculum[5]	Compulsory	-
	Recommended	-

General objective [6]	Learning the concepts, rules and techniques of design, realization, analysis, verification and optimization of mechanical system components, using information technology and specific CAD programs.
Specific objectives[7]	Establishing a technological route for obtaining molded landmarks, respecting all the structural requirements and properties imposed on the material, but also a maximum yield of all the machines used. Acquiring knowledge and skills regarding the use of dedicated software applications in production processes.
Course description[8]	Introduction to Aided Design. Current concerns in the design of processing sectors. Databases used in assisted design. Computer-aided design of plastic deformation sectors. Assisted design of plastic deformation technological flows. The main stages of the design. Ecological principles in the design of plastic deformation sectors.

Assessment		Schedule[9]		Percentage of the final grade (minimum grade)[10]
A. Final assessment form [11] colloquium	Class tests along the semester	%	week	50 % (minimum 5)
	Home works	%		
	Other activities	%	week	
	Examination procedures and conditions: 1. Subject with open questions, working conditions oral, percent 100 %; 2. -, working conditions -, percent %; 3. -, working conditions -, percent %	100 % (minimum 5)	week 14	
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			% (minimum 5)
D. Project	Activity during project			50 % (minimum 5)
Course organizer	**Lecturer Ph.D. Eng. Manuela-Cristina PERJU**			
Teaching assistants	**Lecturer Ph.D. Eng. Manuela-Cristina PERJU**			

[1]Course name from the curriculum
[2] DF – fundamental, DD – 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