

COURSE GUIDE – short form

Academic year 2024-2025

Course name ¹	OBTAINING PARTS MADE BY SPECIAL PROCEDURES (2)					Course code	TAIPM IA 107		
Course type ²	DA	Category ³	DI	Year of study	1	Semester	2	Number of credit points	4

Faculty	Material Science and Engineering	Number of teaching and learning hours ⁴						
Field	Materials Engineering	Total	L	T	LB	P	IS	
Specialization	TAIPM	100	28	-	28	-	44	

Pre-requisites from the curriculum ⁵	Compulsory	Not applicable
	Recommended	Not applicable

General objective ⁶	The aim is to transmit the knowledge necessary to obtain high-quality castings or special-purpose castings, which require special attention, experience and good technological training, in accordance with current processes used in developed countries.
Specific objectives ⁷	By completing this course, master's students acquire new technical skills in the field of technological design, the use of advanced forming and casting materials, the production of precise cast parts, or those with special purposes.
Course description ⁸	<ol style="list-style-type: none"> 1. Obtaining precise parts by casting in shell molds made with fusible patterns. 2. Obtaining precise parts by casting in shell molds with a separation surface. 3. Obtaining parts by casting in molds made from mixtures with special properties. 4. Obtaining parts by casting in molds made using depression (vacuum forming or V process), considerations on the process, variants of the process, peculiarities of the process. 5. Obtaining parts by casting in molds made from magnetically solidified ingots. 6. Obtaining parts by casting in molds made using volatile patterns. 7. Making molds for casting pieces of art.

Assesment			Schedule ⁹	Percentage of the final grade (minimum grade) ¹⁰
A. Final assessment form ¹¹ :	Class tests along the semester	%	Week 14	60% (minimum 5)
	Home works 1	10%		
	Other activities	%	Exam period	
	Examination procedures and conditions: Probe 1: working conditions oral; percent of the final grade 50%; Probe 2: working conditions; percent of the final grade 50%.	90% (minimum grade 5)		
B. Seminar	Activity during seminar			% (minimum 5)
C. Laboratory	Activity during laboratory			40% (minimum 5)
D. Project	Activity during project			% (minimum 5)

Course organizer	Prof. Ph.D. Eng. Sergiu STANCIU
Teaching assistants	Lecturer, Ph.D., Eng. Bogdan PRICOP

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