

COURSE GUIDE – short form

Academic year 2024-2025

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|-------------|-----------------------------|----------|----|---------------|---|-------------|---|-------------------------|---|
| Course name | Metallic Materials 3 | | | | | Course code | | 3.SM.09.DS | |
| Course type | DS | Category | DI | Year of study | 3 | Semester | 6 | Number of credit points | 4 |

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|----------------|-----------------------------------|--|--|---------------------------------------|----|---|----|---|----|
| Faculty | Materials Science and Engineering | | | Number of teaching and learning hours | | | | | |
| Field | Materials Engineering | | | Total | C | S | L | P | SI |
| Specialization | Materials Science | | | 100 | 28 | - | 28 | - | 44 |

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| Pre-requisites from the curriculum | Compulsory | - |
| | Recommended | - |

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| General objective | Using criteria and evaluation methods fundamental to the identification, modeling, analysis and assessment of qualitative and quantitative phenomena, processes and theories characteristic, and to process and interpret the results of specific processes nonferrous alloys; |
| Specific objectives | Acquiring basic knowledge about the phenomena and processes that take place in the development of non-ferrous alloys. Solve and explain problems of medium complexity regarding the processing, structural aspects, properties and industrial applications of non-ferrous metals and alloys. |
| Course description | Metals and non-ferrous alloys. Physico-chemical processes in the processing of non-ferrous metals and alloys. Alloys refining. Copper and its alloys. Nickel and its alloys. Aluminum and its alloys. Magnesium and its alloys. Tin, lead and their alloys. Specific methods of obtaining, refining and casting. |

| Assesment | | | Schedule | Percentage in the final grade (minimum grade) |
|--|--|----------------------|-------------|---|
| A. Final assessment form ¹ : Exam | Class tests along the semester | - | | 70 % (minimum 5) |
| | Home works | - | | |
| | Other activities | - | | |
| | Examination procedures and conditions: 1.Subject with open questions; tasks: answers to open questions; working conditions: oral; percent of the final grade 50 % 2.Subject with open questions; tasks: answers to open questions; working conditions: oral; percent of the final grade 50 % | 100 % (minimum 5) | exam period | |
| B. Seminar | Activity during seminar | | | - |
| C. Laboratory | Acttivity during laboratory | | | 30 % (minimum 5) |
| D. Project | Activity during project | | | - |

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| Course organizer | Professor dr.eng. Romeu CHELARIU |
| Teaching assistants | Assistant dr. eng. Elena Ionela CHERECHEȘ |