

COURSE GUIDE – short form

Academic year 2024-2025

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|--------------------------|--|-----------------------|-----------|---------------|-----------------|----------|-----------------|-------------------------|----------|
| Course name ¹ | THERMAL AND THERMOCHEMICAL TREATMENTS (2) | | | | Discipline code | | 4 IPM 08 | | |
| Course type ² | DS | Category ³ | DI | Year of study | 4 | Semester | 8 | 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 | IPM | | | | 100 | 28 | - | 28 | - | 44 |

| | | |
|---|-------------|---|
| Pre-requisites from the curriculum ⁵ | Compulsory | - |
| | Recommended | - |

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|----------------------------------|--|
| General objective ⁶ | Aspects about the technological methods used in materials processing to improve the parts properties through chemical treatments |
| Specific objectives ⁷ | Thermochemical treatments on part surface and improved properties |
| Course description ⁸ | <ol style="list-style-type: none"> 1. Thermochemical treatments with metals 2. Copper thermochemical treatments 3. Surface depositions on metals 4. Characterization methods of deposited layers |

| Assessment | | Schedule ⁹ | | Percentage of the final grade (minimum grade) ¹⁰ |
|---|--|-----------------------|-------------|---|
| A. Final assessment form ¹¹ exam | 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) | exam period | |
| B. Seminar | Activity during seminar | | | % (minimum 5) |
| C. Laboratory | Activity during laboratory | | | 50 % (minimum 5) |
| D. Project | Activity during project | | | % (minimum 5) |
| Course organizer | Lecturer Ph.D. Eng. Achîței Dragoș | | | |
| Teaching assistants | Lecturer Ph.D. Eng. Achîței Dragoș | | | |

¹Course 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