

COURSE GUIDE – short form

Academic year 2017-2018

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|--------------------------|-------------------------------|-----------------------|----|---------------|---|-------------|---------|-------------------------|---|--|
| Course name ¹ | Non-metallic materials | | | | | Course code | 4SM12DS | | | |
| Course type ² | DS | Category ³ | DO | Year of study | 4 | Semester | 8 | Number of credit points | 6 | |

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|----------------|-----------------------------------|--|----|---|----|---|----|
| Faculty | Materials Science and Engineering | Number of teaching and learning hours ⁴ | | | | | |
| Field | Materials Engineering | Total | L | T | LB | P | IS |
| Specialization | Materials Science | 144 | 28 | - | 28 | - | 88 |

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

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| General objective ⁶ | The optimal evaluation and solution of technical questions related to processed non-metallic materials by applying concepts, theories and experimental methods. |
| Specific objectives ⁷ | The general classification of the non-metallic materials according to the specific properties and the areas of use. The description of the main processes of obtaining and shaping of the non-metallic materials. The analysis of the relationship between processing - properties – uses. |
| Course description ⁸ | Classification of non-metallic materials. Classification of plastics. Properties of plastics. Obtaining plastics. Methods of processing plastics. Classification of ceramic materials. Structure and properties of ceramic materials. |

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| Assessment | | Schedule ⁹ | Percentage of the final grade (minimum grade) ¹⁰ |
| Continuous assessment | Class tests along the semester | | % |
| | Activity during laboratory works | Weeks 1-14 | 30 % |
| | Assignments | | % |
| Final assessment | Final assessment form ¹¹ | exam | exam period |
| | 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 % | | 70 % |

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| Course organizer | Prof. dr. eng. Romeu Chelariu |
| Teaching assistants | Assist. dr. eng. Raluca Maria Florea |

¹ Course 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