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

Academic year 2017 - 2018

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|---|---|---|---|---|---|---|---|---|---|
| Course name[1] | **UNCONVENTIONAL TECHNOLOGIES FOR PLASTIC DEFORMATION (1)** | | | | | Codul disciplinei | | **5 SITM 02** | |
| Course type[2] | **DS** | Category[3] | **DI** | Year of study | 1M | Semester | **1** | Number of credit points | **4** |

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|---|---|---|---|---|---|---|---|
| Faculty | Material Science and Engineering | Number of teaching and learning hours[4] | | | | | |
| Field | Mechanical Engineering | Total | L | T | LB | P | IS |
| Specialization | SITM | **28** | **14** | **-** | **14** | **-** | |

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

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| General objective [6] | Developing professional and transversal competences required for the application and proper use of unconventional technologies of plastic deformation |
| Specific objectives[7] | Unconventional technologies of plastic deformation with pressure mediums, high speeds, magnetic energy, thermal activation, by electro-hydraulic effect and gas expansion; Unconventional technologies of plastic deformation for advanced materials |
| Course description[8] | Deep-drawing with liquid and gaseous medium pressure, hydrostatic extrusion, plastic deformation with explosives, plastic processing by by expanding gases, processing by electromagnetic forming, deep-drawing by heating or cryogenic cooling the workpiece |

| Assessment | | | Schedule[9] | Percentage of the final grade (minimum grade)[10] |
|---|---|---|---|---|
| Continuous assessment | Class tests along the semester - | | week - | - % |
| | Activity during tutorials/laboratory works/projects/practical work | | | 50 % |
| | Assignments - | | week | % |
| Final assessment | Final assessment form[11] | colloquium | week 14 | 50 % (minimum 5) |
| | Examination procedures and conditions:<br>1. Subject with open questions ; tasks thematic approach ; working conditions oral; percent 100 %;<br>2. - ; tasks - ; working conditions -; percent %;<br>3. - ; tasks - ; working conditions -; percent %; | | | |

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| Course organizer | **Professor, Ph.D., Eng. Dorin LUCA** | |
| Teaching assistants | **Assistant Professor, Ph.D., Eng. Cătălin-Andrei ȚUGUI** | |

[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