**COURSE GUIDE – short form**

Academic year 2014-2015

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| Course name[[1]](#endnote-2) | **Analysis of failures in engineering** | | | | | Course code | | | MDET.DI.DA.201 | |
| Course type[[2]](#endnote-3) | DA | Category[[3]](#endnote-4) | DI | Year of study | 2 | Semester | 3 | Number of credit points | | 7 |

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| Faculty | Mechanical engineering | Number of teaching and learning hours[[4]](#endnote-5) | | | | | |
| Field | Mechanical engineering | Total | L | T | LB | P | IS |
| Specialization | DETIM | 126 | 28 | 14 | - | - | 84 |

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| Pre-requisites from the curriculum[[5]](#endnote-6) | Compulsory | - |
| Recommended | Strength of materials 1, 2 |

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| General objective [[6]](#endnote-7) | Learning concepts of ethics, professionalism and responsibility.  Highlighting, besides the technical problems, of environmental issues, communication and procedural issues. |
| Specific objectives[[7]](#endnote-8) | * Analysis of some historical failures, that have changed certain aspects of the profession |
| Course description[[8]](#endnote-9) | Causes of material failures, causes of failures, forensic engineering, taking samples, investigation of failures, writing of investigation report, analysis of some historical failures |

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| Assessment | | | Schedule[[9]](#endnote-10) | Percentage of the final grade (minimum grade)[[10]](#endnote-11) |
| Continuous assessment | Class tests along the semester | | - | - |
| Activity during tutorials/laboratory works/projects/practical work | | Week 1-14 | 20% |
| Assignments | | Week 1-14 | 30% |
| Final assessment | Final assessment form[[11]](#endnote-12) | Colloquium | Week 14th | 50 % |
| Examination procedures and conditions:  1. Oral presentation of a case; 2 Tasks: development of topic, followed by questions; 3. Working conditions: duration of approx. 20 min., access to the work developed during the semester; percent of the final grade 100% | | |

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| Course organizer | Prof.dr.ing. Barsanescu Paul |  |
| Teaching assistants | Prof.dr.ing. Barsanescu Paul |  |

1. Course name from the curriculum [↑](#endnote-ref-2)
2. DF – fundamental, DID – in the field, DS – specialty, DC – complementary (from the curriculum) [↑](#endnote-ref-3)
3. DI – imposed, DO –optional, DL – facultative (from the curriculum) [↑](#endnote-ref-4)
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) [↑](#endnote-ref-5)
5. According to 4.1 – Pre-requisites - from the Course guide – extended form [↑](#endnote-ref-6)
6. According to 7.1 from the Course guide – extended form [↑](#endnote-ref-7)
7. According to 7.2 from the Course guide – extended form [↑](#endnote-ref-8)
8. Short description of the course, according to point 8 from the Course guide – extended form [↑](#endnote-ref-9)
9. For continuous assessment: weeks 1 – 14, for final assessment – colloquium: week 14, for final assessment-exam: exam period [↑](#endnote-ref-10)
10. A minimum grade might be imposed for some assessment stages [↑](#endnote-ref-11)
11. Exam or colloquium [↑](#endnote-ref-12)