**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical And Electrical Engineering Faculty |
| Field of study | Computers and Information Technology |
| Level | Master |
| Program of study | Applied Computer Techniques and Technologies |

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| Course | **Data Science** |
| Code | 2TTIA1OS02 |
| Year of study (semester) | I (I) |
| Number of hours | 84 |
| Number of credits | 7 |
| Professor | Assoc. prof. dr, eng. Stoicuta Olimpiu-Costinel |

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| **No.** | **Topic** |
|  | Introduction to R. |
|  | Graphical interfaces. R Commander. Rattle. Revolution R. |
|  | Reading / writing data from SAS files. Writing data to DBF files. |
|  | Graphics ggplot2. |
|  | Data structures in R. |
|  | Data generation. Programming in R. |
|  | Function declaration in R. |
|  | Multifactorial regression. |
|  | Statistical tests. Statistical analysis of time series. |
|  | Introduction to Big Data. |