**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering  |
| Field of study | Computers and Information Technology |
| Level | Bachelor |
| Program of study | Computers Engineering |

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| Course | **Modelling and simulation** |
| Code | 2CC5OD36 |
| Year of study (semester) | III (I) |
| Number of hours | 70 |
| Number of credits | 6 |
| Professor | Associate Professor Dr. Eng. Stoicuța Olimpiu. |

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| **No.** | **Topic** |
|  | Models representation  |
|  | The analysis tools of the models |
|  | Examples of the mathematical models  |
|  | Continuous time models and their simulation in Matlab-Simulink |
|  | Discrete time models and their simulation in Matlab-Simulink |
|  | Discrete event models and their simulation in Matlab-Simulink |
|  | Real time simulation in Matlab-Simulink |