**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electric Engineering |
| Field of study | Electrical Engineering |
| Level | Master |
| Program of study | Electromechanical Systems |

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| Course | **Analysis of Electrical Circuits Using Programming**  **Environments and Numerical Simulations** |
| Code | 2MSEAD04 |
| Year of study (semester) | I (I) |
| Number of hours | 84 |
| Number of credits | 6 |
| Professor | Associate Professor Ph.D. Niculescu Titu |

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| **No.** | **Topic** |
|  | MATLAB simulation elements |
|  | Analysis of electrical DC linear circuits |
|  | Analysis of single phase AC circuits |
|  | Analysis of three-phase AC circuits |
|  | Transient regime of DC circuits |
|  | Electrical AC circuits in damage regime |