**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 | Operation of Industrial Electrical Installations |

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| Course | **Optimization of Power Grids Operation** |
| Code | 2MEIEIAD04 |
| Year of study (semester) | I (I) |
| Number of hours | 70 |
| Number of credits | 6 |
| Professor | Associate Professor Ph.D. Dragoș PĂSCULESCU |

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| **No.** | **Topic** |
|  | Basic problems of rational electricity management in the industrial activity. |
|  | Electroenergetic information system of industrial units. |
|  | Losses of active electricity caused by the circulation of reactive energy in the electrical networks of industrial units. |
|  | Methods for optimizing electricity consumption at the design stage of electrical installations. |
|  | Active and reactive energy consumption forecast. Methods, algorithms and calculation programs of own technological power consumption. |
|  | Methods for optimizing electricity consumption in the operation phase. |