**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering |
| Field of study | Power Engineering |
| Level | Bachelor |
| Program of study | Industrial Power Engineering |

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| Course | **Power Systems Optimization** |
| Code | 2II7AS56 |
| Year of study (semester) | IV (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Assoc. Prof., Ph.D. PASCULESCU Dragos |

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| **No.** | **Topic** |
|  | Basic problems of rational electricity management in industrial activity |
|  | Electroenergetic information system of industrial enterprises |
|  | Lighting of production sections. Non-technological breaks in equipment |
|  | Compressed air production plants. Heating and ventilation systems |
|  | Losses of active electricity caused by the circulation of reactive energy in the electrical networks of industrial enterprises |
|  | 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 |
|  | Calculation of technological power consumption |