**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 | **Electricity Quality and Conservation** |
| Code | 2MEIEIAS02 |
| Year of study (semester) | I (I) |
| Number of hours | 98 |
| Number of credits | 7 |
| Professor | Assoc. Prof., Ph.D. UȚU Ilie |

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| **No.** | **Topic** |
|  | The architecture of an electric power system |
|  | Organizing systems for measuring energy and power flows in the conditions of the electricity market |
|  | Measuring instruments in electric power |
|  | Powers and energies in alternating current circuits |
|  | Energy quality. Monitoring the quality of electricity |
|  | Non-sinusoidal regime and Asymmetric regime. |
|  | Electromagnetic pollution |
|  | The fundamental laws of transformation and the Equation of energy conservation. |