**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 | **Transient Regimes of Electrical Machines** |
| Code | 2MEIEIOS11 |
| Year of study (semester) | II (I) |
| Number of hours | 70 |
| Number of credits | 6 |
| Professor | Assoc. Prof., Ph.D. UȚU Ilie |

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| **No.** | **Topic** |
|  | Transient modes at idle and on load of the asynchronous motor |
|  | Transient regimes of the asynchronous motor at sudden frequency variation |
|  | Transient modes of the synchronous motor to sudden torque variation |
|  | Transient process of DC motor operation from the variation of the supply voltage. |
|  | Transient process of DC motor operation from the variation of the resistive torque |
|  | Drive systems with asynchronous motor and static frequency converters with flow orientation. |
|  | Recalculation of actuation power according to operating services and environmental conditions. |
|  | Control and protection of electromechanical systems |