**Course Syllabus**

Academic year: 2020-2021

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

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| Course | **Special Electrical Machines** |
| Code | 2EE8OS61 |
| Year of study (semester) | IV (II) |
| Number of hours | 56 |
| Number of credits | 4 |
| Professor | Assoc. Prof., Ph.D. UȚU Ilie |

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| **No.** | **Topic** |
|  | Principles of electromechanical energy conversion. |
|  | DC actuators: construction, classification, control, features. |
|  | Single-phase micromotors with collector. |
|  | Single-phase, two-phase and three-phase asynchronous micromotors |
|  | Asynchronous servomotors. |
|  | Synchronous micromachines with variable reluctance, with hysteresis, with permanent magnets. |
|  | Brushless actuators excited with permanent magnets. |
|  | Electric micromachines transducers. |