**Course Syllabus**

Academic year: 2020-2021

|  |  |
| --- | --- |
| Institution | University of Petroşani |
| Faculty | Mechanical and Electric Engineering |
| Field of study | Electrical Engineering |
| Level | Master |
| Program of study | Electromechanical Systems |

|  |  |
| --- | --- |
| Course | **Complex Electromechanical Systems** |
| Code | 2MSEOD01 |
| Year of study (semester) | I (I) |
| Number of hours | 84 |
| Number of credits | 7 |
| Professor | Lecturer Ph.D. Popescu Florin Gabriel |

|  |  |
| --- | --- |
| **No.** | **Topic** |
|  | Energy systems of electromechanical systems. |
|  | Structures of complex electromechanical systems. |
|  | Drive systems with asynchronous machines. |
|  | Asynchronous motor drive systems and static frequency converters. |
|  | Asynchronous motor drives and static frequency converters with flow orientation. |
|  | Working regimes of electrical rotary machines. |
|  | Recalculate operating power according to service and environmental conditions. |
|  | Command and protection of complex electromechanical systems. |