**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 | Operation of Industrial Electrical Installations |

|  |  |
| --- | --- |
| Course | **Smart Power Grids** |
| Code | 2MEIEIAD04 |
| Year of study (semester) | I (I) |
| Number of hours | 70 |
| Number of credits | 6 |
| Professor | Associate Professor Ph.D. Dragoș PĂSCULESCU |

|  |  |
| --- | --- |
| **No.** | **Topic** |
|  | Renewable energy sources and resources |
|  | European Union policies and directives in the field of the use of renewable energy resources |
|  | Internal electricity network of wind power stations and photovoltaic installations |
|  | Micro Smart Grid for supplying consumers with electricity produced from renewable energy sources |
|  | Micro Smart Grid monitoring and command-control system |
|  | Connection of wind farms and photovoltaic installations to the NES electricity networks |