**Course Syllabus**

Academic year: 2020-2021

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

|  |  |
| --- | --- |
| Course | **Electromagnetic field theory** |
| Code | 2EEIOD06 |
| Year of study (semester) | I (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Assoc. Prof., Ph.D. STOCHITOIU MARIA DANIELA |

|  |  |
| --- | --- |
| **No.** | **Topic** |
|  | Laws and theories in macroscopic theory  |
|  | Electrostatics. Coulomb`s Law. The electrostatic field. |
|  | The electrocinetics stationary stage.  |
|  | Capacitors. |
|  | Electrostatic circuits. Forces and energy |
|  | Electrodynamics. Particular forces and energy. Ferromagnetism |
|  | Magnetostatics. Inductivities, Induction. |