**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical And Electrical Engineering Faculty |
| Field of study | Computers |
| Level | Master |
| Program of study | Applied Computer Techniques and Technologies |

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| Course |  **Software applications for renewable energy systems I** |
| Code | 2TTIA1OS14 |
| Year of study (semester) | II (I) |
| Number of hours | 70 |
| Number of credits | 6 |
| Professor | Assoc. prof. dr, eng. Stoicuta Olimpiu-Costinel  |

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| **No.** | **Topic** |
|  | The conversion of solar energy into thermal energy. |
|  | The conversion of solar energy into electricity. |
|  | Wind energy. |
|  | Geothermal energy. |
|  | Wave energy. |
|  | Biomass. |
|  | Designing and Simulation Tools of Renewable Energy Systems (Matlab-Simulink) |
|  | TRNSYS presentation. |
|  | PVSYST presentation. |
|  | POLYSUN presentation. |