**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 | **Industrial Instrumentation** |
| Code | 2EE5OS35 |
| Year of study (semester) | III (I) |
| Number of hours | 42 |
| Number of credits | 4 |
| Professor | Assoc. Prof., Ph.D. UȚU Ilie |

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| **No.** | **Topic** |
|  | The object of measurements and metrology |
|  | Development of a measurement; Measurement methods. |
|  | Methods and instrumentation for measuring temperature and amount of heat |
|  | Methods and instrumentation for measuring lengths, thicknesses, displacements and deviations from predetermined dimensions |
|  | Level and flow measurement systems. |
|  | Systems for measuring mechanical stresses, forces and pressures |
|  | Torque and mechanical power measurement systems |
|  | Computer controlled measuring installations |