**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering |
| Field of study | Power Engineering |
| Level | Bachelor |
| Program of study | Industrial Power Engineering |

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| Course | **Strength of Materials** |
| Code | 2II3OD22 |
| Year of study (semester) | II (I) |
| Number of hours | 42 |
| Number of credits | 4 |
| Professor | Assoc. Prof., Ph.D. RIDZI Mihai Carmelo |

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| **No.** | **Topic** |
|  | External and internal forces. |
|  | Displacements and specific deformations |
|  | Stretching and compression. |
|  | Shear stresses and strains. Straight bar stresses required for pure bending and simple bending |
|  | Stress and strain in the torsion bars required. |
|  | The differential equation of the deformed average fiber and its integration. |