**Course Syllabus**

Academic year: 2020-2021

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

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| Course | **Neural Networks and Machine Learning** |
| Code | 2TTIA1OS08 |
| Year of study (semester) | I (II) |
| Number of hours | 70 |
| Number of credits | 7 |
| Professor | Assoc. prof. eng. Egri Angela, Ph.D. |

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| **No.** | **Topic** |
|  | Artificial Neural Networks |
|  | Applications of Neural Networks |
|  | Artificial Neural Networks in prediction |
|  | Artificial Neural Networks for Classification |
|  | Artificial Neural Networks in Data Mining |
|  | Artificial Neural Networks for conceptualization |
|  | Data filtering Neural Networks |
|  | Deep Neural Networks and deep learning |