**Course Syllabus**

Academic year: 2020-2021

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

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| Course | **GIS/GPS Systems** |
| Code | 2TT6OS49 |
| Year of study (semester) | III (6) |
| Number of hours | 42 |
| Number of credits | 3 |
| Professor | Assoc. prof. PhD eng. Andrei ANDRAȘ |

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| **No.** | **Topic** |
|  | Introduction (History of GIS, What is GIS, HW and SW for GIS, Distributed GIS) |
|  | Models of spatial information |
|  | Functionality of GIS (Data input, restructuration, analysis and synthesis) |
|  | Operating aspects of GIS |
|  | Application of GIS in transports |
|  | What is GPS. The GPS Signal |
|  | GPS Biases and Solutions. GPS Framework. |
|  | GPS Receivers and Methods. |