**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical and Electrical Engineering |
| Field of study | Engineering systems |
| Level | Master |
| Program of study | Systems and Information Technology |

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| Course | **Information systems specific to potentially explosive atmospheres** |
| Code | 2STI3OD11 |
| Year of study (semester) | II (I) |
| Number of hours | 56 |
| Number of credits | 5 |
| Professor | Ph.D. BURIAN Constantin Sorin |

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| **No.** | **Topic** |
|  | Fundamental concepts for explosion prevention and protection  against explosions |
|  | General explosion safety requirements for electrical equipment located in hazardous areas |
|  | Safety requirements for electrical equipment with intrinsically safe protection type "i" |
|  | Inspection and maintenance of electrical installations operating in the atmosphere with potential danger of explosion |
|  | Protective systems, installations, cables and electrical networks in potentially explosive atmospheres |
|  | Functional safety of electrical / electronic / programmable systems |