**Course Syllabus**

Academic year: 2020-2021

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| Institution | University of Petroşani |
| Faculty | Mechanical And Electrical Engineering Faculty |
| Field of study | System Engineering |
| Level | Bachelor |
| Program of study | Information Systems And Technologies |

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| Course | **Flexible manufacturing systems** |
| Code | 2STI3OS14 |
| Year of study (semester) | II (III) |
| Number of hours | 70 |
| Number of credits | 7 |
| Professor | Lecturer eng. Sirb Vali, Ph.D. |

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| **No.** | **Topic** |
|  | The concept of an integrated manufacturing system. |
|  | Flexible manufacturing systems. |
|  | CIM models. Current typologies of CIMs. |
|  | Software for simulation of integrated manufacturing systems. |
|  | Conceiving, modeling, programming and monitoring the structure of the flexible line with the Scale robot. |
|  | Modeling and SFF simulation using Petri networks (RP). |