**Course Syllabus**

**Academic year: 2020-2021**

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| Institution | University of Petroșani |
| Faculty | Science |
| Field of study | Management |
| Level | Master |
| Program of Study | Strategic Management for Business |

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| Course | **Business management information systems** |
| Code | MN.MSA.O.3.01 |
| Year of Study(semester) | II(I) |
| Number of hours | 28 |
| Number of credits | 6 |
| Professor | Professor habil PhD Eduard Edelhauser |

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| **No.** | **Topic** |
| 1. | **Integrated information systems for business management**. Enterprise resource planning business management software tools. Computer systems. Integrated computer systems. Enterprise Resource Planning. Definitions and structures of integrated information systems. The functional processes of an organization, likely to be managed by an ERP. Generic components of an ERP. What does an ERP actually mean? How does an ERP work? Trends in integrated information systems |
| 2. | **Databases support for Integrated Information Systems. Access.** Access Tables, Ordering. Filtering. Query by Example (QBE). Structured Query Language (SQL), Access Forms, Access Reports. |
| 3. | **ERP market.** Current state of the national and global market for ERP applications The global market for SAP database platform providers, the world leader in providing business software solutions Oracle, the world's second largest manufacturer of business software Microsoft Dynamics NAV, the ERP solution of Microsoft SIVECO application, a complete Enterprise Application System solution developed entirely in Romania Clarvision, an integrated ERP system, implemented by EBS Romania ASiSplus WinMENTOR Charisma ERP and Charisma HCM products TotalSoft Wizrom Software complete software solutions through WizPro and WizCount SeniorERP Romanian enterprise software market |
| 4.  | **Decision Support Systems DSS and Business Intelligence BI**. Decision Support Systems Data Warehouse Decision Support Systems Using Data Warehouses Economic Intelligence and Assisted Decision Premises for Developing Economic Intelligence in Organizations Business Intelligence Information Systems Business Intelligence Tools Dashboard -ul), and the Score Card IT products of decision support for the managers of an organization |
| 5.  | **Current state of the national and world market for BI applications.** Microsoft Business Intelligence, Microsoft's BI application integrated into SQL Server. Oracle Business Intelligence (O.B.I.). Oracle Business Intelligence through SIVECO Business Analyzer Spectrum Software Solutions, a turnkey solution for intelligent managers Charisma Analyzer, Panorama BI tactical and strategic analysis tool. A complete SIVECO Balanced Score Card Business Intelligence solution, a solution that monitors performance Oracle Scorecard solution Microsoft "Maestro" - Business Performance Management Scorecard BI Market in Romania |
| 6. | **Design and implementation of alternative information systems for business management.** Overall design of the hardware and software architecture for the implementation of the Human Resources Management module of the global ERP. Design of Transaction Processing Systems and Manager Information Systems. Design of the Personnel Records subsystem and the Post Analysis subsystem. Design of Decision Support Systems. Design of the personnel recruitment subsystem using an expert system for the trades specific to the extractive industry |