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**Establishing Modern Master-level Studies in Information Systems   
561592-EPP-1-2015-1- FR-EPPKA2-CBHE-JP**

**Information System Development and Deployment.**

**List of lectures with the short description**

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| Topic | Description |
| Architectural approach and methodology of IS construction | Fundamentals of architectural approach: scheme and process  Artifacts of an Architectural Approach  ISO 15704. Industrial Automation Systems - Requirements for enterprise-reference architectures and methodologies. 2000  ISO 14258. Concepts and rules for enterprise models. 1998  Standard models of enterprise architecture  The variety of generalized schemes |
| IS Architecture, Elements of Business Architecture and IT-architecture | Domains of architecture  Model for describing the strategy and architecture of information technology  General principles related to architecture  Principles in the field of IT infrastructure  Principles of Data Management  Principles associated with application systems  Building a business architecture  Basic models and tools for describing business architecture  Decomposition of business processes  Analysis of business architecture |
| BPMN for Business Analyses | Business Process Management Model  Describes business processes using BPMN  Types of processes in the BPMN notation  Objects flow of the process  Event types  Types of triggers  Types of artifacts  Examples of business process descriptions |
| Paradigmus and Approach to IS Development (Deployment) | Four paradigms of development of IС (for Klein)  Five paradigms of development of IС (for Iivari)  IS Development Life Cycles (IDLC)  Waterfall Model, V-Model, Incremental Model, Iterative Model, Spiral Model with Project Control Points.  Overview of Systems Development Techniques  Agile Model, Prototype Model, The Star Life Cycle Model  Hybrid approaches |
| Agile и RUP , Team Management for Agile methodology | XP / Agile / SCRUM  Scrum People and Team  Team values  The values of the Scrum  Types of personalities of Agile teams  The energy of the team  10 Character Rice of Good Staff  Scrum Execution  Scrum Reflection |
| IS Design:  Structured Analysis  and Design Technique – SADT | The essence of the structural approach to system simulation  Models of structural approach  IDEF family methodologies  IDEF0. Contextual Chart  Decomposition of IDEF0  Types of relationships between robots  Examples of IDEF0 charts for specific systems |
| DevOps concepts in the IS Development Process | DevOps key issues  Goals and benefits of DevOps  DevOps Criteria  DevOps Practices and Tools  Infrastructure automation  Configuration management |
| Testing IS and Software | Classification of types of testing  Test plan  Test Design  Test case  Test Levels  Testing objects  Degree of testing automation |
| IS Support and Maintenance | Stages of the LC  Sequence of implementation  Documentation of the implementation phase  Test objects  Customer's personnel IS  Sources of problems in the implementation of IS  IS Implementation Options  The stage of IS support  System maintenance and support of servers and cluster systems  The system of support for learning and adaptation to IS |