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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**

Kyiv 2018

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| Topic | Description |
| Architectural approach and methodology of IS construction | Fundamentals of architectural approach: scheme and processArtifacts of an Architectural ApproachISO 15704. Industrial Automation Systems - Requirements for enterprise-reference architectures and methodologies. 2000ISO 14258. Concepts and rules for enterprise models. 1998Standard models of enterprise architectureThe variety of generalized schemes |
| IS Architecture, Elements of Business Architecture and IT-architecture | Domains of architectureModel for describing the strategy and architecture of information technologyGeneral principles related to architecturePrinciples in the field of IT infrastructurePrinciples of Data ManagementPrinciples associated with application systemsBuilding a business architectureBasic models and tools for describing business architectureDecomposition of business processesAnalysis of business architecture |
| BPMN for Business Analyses | Business Process Management ModelDescribes business processes using BPMNTypes of processes in the BPMN notationObjects flow of the processEvent typesTypes of triggersTypes of artifactsExamples 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 TechniquesAgile Model, Prototype Model, The Star Life Cycle ModelHybrid approaches  |
| Agile и RUP , Team Management for Agile methodology | XP / Agile / SCRUM Scrum People and TeamTeam valuesThe values of the ScrumTypes of personalities of Agile teamsThe energy of the team10 Character Rice of Good StaffScrum ExecutionScrum Reflection |
| IS Design: Structured Analysis and Design Technique – SADT | The essence of the structural approach to system simulationModels of structural approachIDEF family methodologiesIDEF0. Contextual ChartDecomposition of IDEF0Types of relationships between robotsExamples of IDEF0 charts for specific systems |
| DevOps concepts in the IS Development Process | DevOps key issuesGoals and benefits of DevOpsDevOps CriteriaDevOps Practices and ToolsInfrastructure automationConfiguration management |
| Testing IS and Software | Classification of types of testingTest planTest DesignTest caseTest LevelsTesting objectsDegree of testing automation |
| IS Support and Maintenance | Stages of the LCSequence of implementationDocumentation of the implementation phaseTest objectsCustomer's personnel ISSources of problems in the implementation of ISIS Implementation OptionsThe stage of IS supportSystem maintenance and support of servers and cluster systemsThe system of support for learning and adaptation to IS |