

Name: Enterprise Information Systems		NEPTUN-code: <i>NIXVIOEBNE</i>	Number of periods/week: full-time: 2 lec + 0 sem + 2 lab
Credit: 4 Requirement: exam	Prerequisite: <i>NIXABOEBNE</i> Databases <i>NMXVSIEBNE</i> Probability theory and mathematical statistics		
Responsible: László ERDŐDI, Ph.D.	Position: senior lecturer	Faculty and Institute name: John von Neumann Faculty of Informatics Institute of Applied Informatics	
Way of assessment: - requirements for signature: passing the mid-terms and successful submission of a homework assignment - oral exam			
Competences			
Course description:			
<p>The objective of the course is to discuss the fundamental aspects of business functionality, determine the requirements of business IT systems and to present the data model and IT processes that guarantee integrated operation.</p> <p>The main concepts: business system, IT system, IT tools and their categorization, requirements of IT systems. Customer relationship model. Functional subsystems of the business system: customer service, procurement, finance, inventory. Relationships among the subsystems, business processes and the supporting data model. IT processes. System service functions. The concept and importance of control, categories and examples. Historical survey.</p> <p>The objective of the lab is to support the lectures by providing practical examples. Students will learn to use a business process modeling tool, as well as the supporting data models. Students will form small teams that analyze certain areas of a model company. The results of the teamwork will provide the basis to design and develop an integrated system or select an adequate standard system.</p>			
Literature			
<p>Csaba Komló: Information Systems Planning Methodology, Eszterházy Károly Főiskola, 2014 (in Hungarian)</p> <p>Holyinka Péter: Enterprise Information Systems. (electronic notes)</p> <p>U. Wahli, V. Avula, H. Macleod, M. Saeed, A. Vinther: Business Process Management: Modeling through Monitoring Using WebSphere V6.0.2 Products, IBM Press, 2007</p> <p>Dumas, M., La Rosa, M., Mendling, J., Reijers, H.: Fundamentals of Business Process Management, Springer, 2013</p>			