

General Information			
Course name ÚINF/AIS1/15	Information systems architecture	ECTS Credits	4
		Semester	2
Aims			
To provide an overview of the modern methodologies of information system development. To introduce the fundamental principles of conceptual modelling of information systems.			
Content			
System, information system, information pyramid. Conceptualization of information systems. ISO model of the architecture of an information system. Introduction to MDA, software development life cycle based on MDA. Model, metamodel, modelling language. Model transformation and marking models. Entity types. Relationship types. Cardinality constraints. Integrity constraints. Taxonomies. Domain events. Use cases. State transition diagrams.			
Assessment Methods and Criteria			
<p>1. Attendance – students are expected to attend each class according to the schedule. Should the student miss three or more classes, he/she will not receive credits for the course no matter what his/her overall results are on the tests(s). The student must be on time for class.</p> <p>2. Active participation - students are required to do their best with respect to active participation in seminar sessions.</p> <p>Assessment: project 40p, test 40p, examination 20p – at least 50% of every part.</p>			
<p>Grading Scale (in %): A 91-100% B 81-90% C 71-80% D 61-70% E 51-60% FX 50 and less</p> <p>Grading System: The University recognizes the following six degrees for the evaluation of the study results: a) A – excellent (excellent results) (numerical value 1) b) B – very good (above average results) (1.5) c) C – good (average results) (2) d) D – satisfactory (acceptable results) (2.5) e) E – sufficient (results meet the minimum criteria) (3) f) FX –failed (requires further work) (4)</p>			
Bibliography			

BEYEDA, S., BOOK, M., GRUHN, V.: Model-Driven Software Development, Springer 2005.
GAŠEVIČ, D., DJURIČ, D., DEVEDZIČ, V.: Model Driven Architecture and Ontology Development, Springer 2006.
KLEPPE, A., BAST, W., WARMER, J. B.: The Model Driven Architecture: Practice and Promise , Addison-Wesley 2003 (<http://www.klasse.nl/>)
MELLOR, S. J., SCOTT, K., UHL, A., WEISE, D.: MDA Distilled, Addison-Wesley 2004
OLIVÉ, A.: Conceptual Modelling of Information Systems, Springer 2007

