Óbuda University– Alba Regia Technical Faculty Institut							titute of	f Engineering	
Subject name and code: NRKSA2VSND – Advanced SAP ABAP Credit: 3									
Full time course 2014/15 Academic Year Semester:2									
Training Programs running this course: Engineering Informatics BSc									
Subject leader. Dr. Orosz Gábor				TamásTeachers:Dr. Orosz Gábor TamásDr. Rádai Levente					
Prerequisites:			NRKS	NRKSA1VSNC SAP ABAP			ABAP P	rogramming	
Weekly lessons: Lectures: 1		s: 1	Practices: 0		La	Laboratories: 2 Consu		lting: 0	
Measuring points: midterm mark based on lecture tests and midterm tests									
Course program									
Learning objectives: the student will know the object oriented concept of ABAP and use it with SAP									
Enjoy Controls tools. (ALV, Picture, split, HTML-viewer, etc.). Furthermore will be able to develop									
dynamic programs, RFC functions, web services and WebDynpro and will be able to extend standard transactions with Exit. Radi. and Enhancement tools									
Topics								Uouma	
<b>LOPICS</b> (Lectures and Laboratories)								nours	
1. OOP basics and SAP OO syntax: objects, class relations, local classes, instantiating								3	
visibility, methods, method calls, Pretty Printer.								5	
2. Using OOP in ABAP: Constructors, static classes, global classes and types,								3	
Interfaces.									
3. Inheritance, Type conversion, casting, exclusion classes, events.								3	
4. Persistency, shared memory objects, RTTS.								3	
5. Dynamic programming (way of program creating, data and type definitions).								3	
6. Enjoy Controls: control framework, Picture, Containers, HTML-Viewer.								3	
7. Enjoy Controls: ALV functions, data storage and handling.								3	
8. Interfaces: RFC and Web-Services.								3	
9. SAP extensions w/o modification of standard components: modification levels,								3	
DDIC component extensions, Customer Exit.								2	
10. SAP extensions w/o modification of standard components: BTE, BAdI, Enhancement								3	
11 WebDyppro basics (SAP and Web development ITS_RSP_MV/C_W/D architecture)								3	
12. WebDynpro program (definitions, elements, context, controls, texts, screen								3	
components).								5	
13. Use of WebDynpro (programs, relationships, assistant classes, input helps).								3	
14. WebDynpro special elements (messages, dialog window, component call, dynamic								3	
platform, data content modification)									
Measuring points									
Supplement	Supplement According to the Training and Exam Regulations								
Paguiroments of	Iterm exams:								
Teacher's Signature	r's Signature to the Training and Exam Regulations								
Average result of weekly tests at least 50%.									
Submission of Practical assignments according to the deadlines.									
Grading (Midterm mark): 0-50% Fail, 51% Pass, 61% Satisfactory, 71% Good, 81% Excellent									
34% gives the average result of weekly tests,									
66% gives the average results of midterm exams									
Maximum number of missed lectures 3 times									
Compulsory literature: SAP UAC presentations and case studies									
Computery Interature: SAP UAC presentations and case studies									
Recommended literature: ABAP Object Oriented Programming, SAP Press									

Valid from 7th of January, 2015 until further modification