Óbuda University– A	lba Regia Techn	ical Faculty		Institute of	f Engineering
Subject name and code: AMKAA0KBNE – Advanced ABAPCredit: 3					
Full time course2017/18 Academic YearSemester					2
Training Programs run	ning this course:	Engineering BS	c		
		et leader:		5	Teachers:
D	Dr. Oros	sz Tamás		Dr.	Orosz Tamás
Prerequisites:					k: 0
Weekly lessons:Lectures: 1Practices: 0Laboratories: 2ConsuMeasuring points:midterm mark based on lecture tests and midterm tests					lting: 0
Measuring points: mic	aterm mark based			StS	
Learning objectives: s	tudonta will acqu	Course progra		ADAD and an	ply it to SAD
Enjoy Controls (ALV,	-	•	-	-	
Web services and Web		. ,			
Exit-, Badi- and Enhan					
	nd environment. S	yntax, keywords	s, structures, and	l tables. ABA	P tools.
	object-oriented p	•			
SAP Controls I	Framework. User	interaction. Dial	og and dynamic	e programming	g
 Modularization 	n. Debugging and	testing.			
	ro, UI5, BSP, Per		_		
File Processing	g. Persistent data.			s.	
	± `	es and Laborator	ies)		Hours
•	revisited. Performa	ince tuning.			3
2. ABAP Worbench					
3. Reporting with ALV Lists. Enjoy Controls: ALV functions, data storage and handling.					3
4. Enjoy Controls: control framework, Picture, Containers, HTML-Viewer.					3
5					
 Dynamic programming (way of program creating, data and type definitions).OOP basics and SAP OO syntax: objects, class relations, local classes, instantiating, visibility, methods, method calls, Pretty Printer. 					3
7	us, methoù calls, P				
	AD: Constructors	static classes glob	al classes and tw	205	3
 Using OOP in ABAP: Constructors, static classes, global classes and types, Interfaces. Inheritance, Type conversion, casting, exclusion classes, events. Class 					5
builder. Class-ba					
9. WebDynpro basics (SAP and Web development, ITS, BSP, MVC, WD architecture).					3
WebDynpro program (definitions, elements, context, controls, texts, screen					
components).					
10. Use of WebDynpro (programs, relationships, assistant classes, input helps).					3
11. Persistency, sha	red memory object	ts, RTTS. LUW.			3
12. BSP. UI5, CSS.					
 SAP extensions w/o modification of standard components: modification levels, DDIC component extensions, Customer Exit. 					3
14. SAP extensions w/o modification of standard components: BTE, BAdI, Enhancement					3
Framework: Enhancement points, sections, implicit enhancements).					3
		Measuring poin			
Supplement midterm		ig to the Training		gulations	
Requirements of Teac		ry Attendance is			attendance
Signature		g to the Training	1 1	11	
	weekly to	ests at least 50%	. Submission of		
		g to the deadline			
Grading (Midterm mar					
34% gives the average	-		_	ults of midter	n exams
Maximum number of r	missed lectures ar	nd laboratories: 3	times		
Compulsory literature:SAP UAC presentations and case studiesRecommended literature:ABAP Object Oriented Programming, SAP Press					

Valid from 5th of January, 2018 until further modification