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| Óbuda University– Alba Regia Technical Faculty | | | Institute of Engineering | | |
| Subject name and code: NRKSA2VSND – Advanced ABAP | | | | Credit: 3 | |
| Full time course 2016/17 Academic Year | | | | Semester:2 | |
| Training Programs running this course: Engineering Informatics BSc | | | | | |
| Subject leader | Dr. Orosz Gábor Tamás | | Teachers: | Dr. Orosz Gábor Tamás Dr. Rádai Levente | |
| Prerequisites: | | | | | |
| Weekly lessons: | Lectures: 1 | Practices: 0 | Laboratories: 2 | Consulting: 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-, Badi- and Enhancement tools | | | | | |
| Topics (Lectures and Laboratories) | | | | | Hours |
| 1. OOP basics and SAP OO syntax: objects, class relations, local classes, instantiating, visibility, methods, method calls, Pretty Printer. | | | | | 1+2 |
| 2. Using OOP in ABAP: Constructors, static classes, global classes and types, Interfaces. | | | | | 1+2 |
| 3. Inheritance, Type conversion, casting, exclusion classes, events. | | | | | 1+2 |
| 4. Persistency, shared memory objects, RTTS. | | | | | 1+2 |
| 5. Dynamic programming (way of program creating, data and type definitions). | | | | | 1+2 |
| 6. Enjoy Controls: control framework, Picture, Containers, HTML-Viewer. | | | | | 1+2 |
| 7. Enjoy Controls: ALV functions, data storage and handling. | | | | | 1+2 |
| 8. Interfaces: RFC and Web-Services | | | | | 1+2 |
| 9. SAP extensions w/o modification of standard components: modification levels, DDIC component extensions, Customer Exit. | | | | | 1+2 |
| 10. SAP extensions w/o modification of standard components: BTE, Badi, Enhancement Framework: Enhancement points, sections, implicit enhancements). □ | | | | | 1+2 |
| 11. WebDynpro basics (SAP and Web development, ITS, BSP, MVC, WD architecture) | | | | | 1+2 |
| 12. WebDynpro program (definitions, elements, context, controls, texts, screen components). | | | | | 1+2 |
| 13. Use of WebDynpro (programs, relationships, assistant classes, input helps). | | | | | 1+2 |
| 14. WebDynpro special elements (messages, dialog window, component call, dynamic platform, data content modification) | | | | | |
| Measuring points | | | | | |
| Supplement midterm exams: | According to the Training and Exam Regulations | | | | |
| Requirements of Teacher's Signature | Laboratory Attendance is compulsory. Supplements of attendance according 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 and laboratories: 3 times | | | | | |

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| Compulsory literature: | SAP UAC presentations and case studies |
| Recommended literature: | Complete ABAP, SAP Press |

Valid from 7th of January, 2015 until further modification