

Implementation plan Finished

Study unit	Designing ICT Systems (A0105), 5.0
Implementation	NIA1211: 1/2012-2013 (27.08.2012 - 21.12.2012)
Type	INITIATION OF PROFESSIONAL GROWTH (A029)
Groups	Primary: NIA12SN Others :
Involved in the project	
Lecturers	
Number of participants	Minimum: Maximum:
Enrolment period	21.05.2012 08:00 - 03.06.2012
Main timing for implementation	
Applicability	For exchange students: Yes For elective studies: No Open UAS student: No Suitable for virtual UAS: No
Teachers	De Arruda Camara Antonius (Teacher in charge), Rathod Paresh (Other teacher)
Campus	Laurea Leppävaara
Main location for implementation	
Implementation method	Optima realization/student group, Other method of implementation, Project/venture/R&D Language: English Virtuality: 0 cr Integration of R&D: 3 cr
Implementation class	
Focus areas	
Evaluation at the latest	17.01.2013 Storing of graded material ends.: 17.12.2013
Exam days	
Having completed the study unit the student is able to	• understanding of the principles, methods, strengths and difficulties of object-oriented system development • understanding the strategy for using modern methods and techniques in development of object-oriented systems • understand modelling and designing of object-oriented system using the industry standard systematically and effectively • critically evaluate and apply object-oriented techniques in object-oriented system development
Previous studies	
Previous studies, more information	This is a first year / first semester study-unit. No previous studies at Laurea required .
Contents	• introduction of System Development Life Cycle • principles of object-oriented analysis and designing • methods and techniques in analysis and design of ICT systems • modelling and designing an ICT system
Study material	Reference book: System Analysis and Design with UML – An object-oriented approach (3rd edition); Allan Dennis, Barbara Haley Wixom, David Tegarden
Evaluation criteria and methods	Grades (0 - 5) will be based on individual assignments affected by the following considerations: - a minimum of 70% attendance to the contact sessions is required for passing the course - positive demonstration of learning progress via exercises and activities on class can positively affect the final grade - missing assignment deadlines decrease the grade by 1 point for every missed deadline
Project (name)	Modelling of Massidea.org System
Work strain	Total of 5 x 26,7 hours = 133,5 hours. Divided as: • 24 hours: Contact sessions • 109,5 hours: Individual work, self-study, independent work

Learning events

Date	o'clock/at h	Subject	Content	Status	Teachers
12.09.2012	09:30	2	Orientation	ACa, PRa: Orientation to study-unit PRa: Computer	

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				Systems Development Life Cycle; Systems Development Methodologies; Object-Oriented Analysis and Design		
19.09.2012	09:30	2	Project topic	ACa: Introduction to project topic	Computer	
26.09.2012	09:30	2	UML	ACa: UML, Activity Diagrams, Use-Case diagrams, MS Visio to draw diagrams	Computer	
03.10.2012	09:30	2	UML	ACa: Continuing with Use-Cases and Activity Diagrams, Passing individual exercise	Computer	
10.10.2012	09:30	2	UML - Use Case and Activity diagrams	ACa: Guidance session to support students making the assignment issued on 03-Oct	Computer	
17.10.2012	09:30	2	Requirements gathering	Workshop conducted by senior Tiko students to collect requirements from BIT12 students in the context of the EXPAT project (ongoing project at Laurea)	Group work	
24.10.2012	09:30	2	Problem domain	ACa: Understanding more about Massidea.org problem domain (Massidea), Guided group activities. Assigning task	Group work	
31.10.2012	09:30	2	Class Diagrams	PRa: UML Class diagrams, MS Visio	Computer	
07.11.2012	09:30	2	Class Diagrams	PRa: Continuing with class diagrams	Computer	
14.11.2012	09:30	2	Project work	ACa: Refining modelling of Massidea. Assigning task.	Group work	
21.11.2012	09:30	2	Object-Oriented	PRa: Object-Oriented, demonstration of code	Computer	
28.11.2012	09:00	2	Project work	PRa: Using Visio with Class Diagrams. Object-oriented programming. User-experience evaluation of a web application (CoCo - Laurea ongoing project). Issuing link for student feedback.	Basic	
12.12.2012	09:30	2	Closure	PRa and ACa: conclusion of study-unit	Basic	