

Implementation plan Finished

Study unit	Designing ICT Systems (A0105), 5.0
Implementation	NIA1311: 1/2013-2014 (26.08.2013 - 20.12.2013)
Type	INITIATION OF PROFESSIONAL GROWTH (A029)
Groups	Primary: NIA13SN Others :
Involved in the project	
Lecturers	
Number of participants	Minimum: Maximum:
Enrolment period	20.05.2013 08:00 - 02.06.2013
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 Pareshe (Other teacher)
Campus	Laurea Leppävaara
Main location for implementation	
Implementation method	Optima realization/student group, Other method of implementation Language: English Virtuality: 0 cr Integration of R&D: 0 cr
Implementation class	
Focus areas	
Evaluation at the latest	17.01.2014 Storing of graded material ends.: 17.12.2014
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	Systems Development Life Cycle Systems Development Methodologies Requirements Analysis Use Case and Activity Diagrams User Interface Design Class Diagrams Use of MS Visio to draw diagrams
Study material	Reference book: System Analysis and Design with UML – An object-oriented approach (3rd edition); Allan Dennis, Barbara Haley Wixom, David Tegarden
Tutoring and communication	Via contact sessions and communication forum in course's Optima space
Evaluation criteria and methods	Option 1: Students collect points (maximum of 100) via attendance, individual tasks and a team task: - Attendance: 1,5 points per contact session. There are 12 planned sessions, for a maximum of 18 points (15 - 30 mins late: 0,75 points. More than 30 mins late and/or leaving before the end of the session: 0 points). - Individual task (Use case and activity diagrams): 0 to 25 points - Team task (UI design) : 0 to 32 points - Individual task: (Class diagrams): 0 to 25 points Grading scale (0 to 5): 0-39 points: 0 40-50 points: 1 51-60 points: 2 61-70 points: 3 71-80 points: 4 81-100 points: 5 Students that miss any of the above parts or wish to improve the grade can also attempt the final exam. There will be two chances to pass the final exam. Option 2: Students that do not wish to participate in the approach described above can skip the individual tasks and team task and directly attempt the final exam. There will be two chances to attempt the final exam. The final exam will contain questions covering the whole content of the course and it will be graded in the scale 0 to 5.

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Project (name)	
Work strain	Contact sessions: 32 hours Self-study, preparing for individual tasks, and team work outside contact sessions: 100 hours

Learning events

Date	o'clock/at h	Subject	Content	Status	Teachers
04.09.2013	09:00-11:30	Introduction to course	Introduction to course Systems Development Life Cycle Systems Development Methodologies Requirements definition		Antonius De Arruda Camara, Paresh Rathod
11.09.2013	09:00-11:30	Degree Orientation Day at Tikkurila	As this is the Degree Orientation Day at Tikkurila we will not have a contact session at Leppävaara. Students should do self-study to learn about the following topics:- Requirements definition- Functional and non-functional requirements- Requirements gathering	NO CONTACT SESSION AT LEPPÄVAARA	
18.09.2013	09:00-11:30	Use-Case diagrams	Introduction to UML Business process description with Activity diagrams Use Case diagrams Using Visio to create diagrams		Antonius De Arruda Camara
25.09.2013	09:00-11:30	Use-Case diagrams	Continuing with Use Cases, Activity diagrams and MS Visio		Antonius De Arruda Camara
02.10.2013	09:00-11:30	Use-Case diagrams	INDIVIDUAL TEST: Use-case diagrams and Activity diagrams		Antonius De Arruda Camara
09.10.2013	09:00-11:30	User interface design	Elements in a web-based user interface Site structure, information hierarchy Making UI wireframes		Paresh Rathod
16.10.2013	09:00-11:30	User interface design	Hands-on practices		Paresh Rathod
23.10.2013	09:00-11:30	Team workshop - UI design	TEAM TASK: Students in small-teams will develop a web-based UI for a provided case scenario		Antonius De Arruda Camara
30.10.2013	09:00-11:30	Team workshop - UI design	Teacher review teams' progress. Questions and answers. Independent team work		Antonius De Arruda Camara
06.11.2013	09:00-11:30	Team workshop - UI design	09:00-11:00: teams get together and make final preparations 11:00: Deadline for uploading files to Optima 11:00-11:30: Teacher randomly select 3 teams to present their work to the class		Antonius De Arruda Camara
13.11.2013	09:00-11:30	Class diagrams	Introduction to object-orientation Class diagrams		Paresh Rathod
20.11.2013	09:00-11:30	Class diagrams	Hands-on practices using MS visio		Paresh Rathod
27.11.2013	09:00-11:30	Class diagrams	INDIVIDUAL TASK: Class diagrams Collecting feedback about the course		Paresh Rathod
04.12.2013	09:00-11:30	Final exam	Final exam - first chance		Antonius De

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						Arruda Camara
11.12.2013	09:00-11:30		Final exam	Final exam - second and final chance		Paresh Rathod