

Implementation plan Finished

Study unit	Implementing ICT Systems (A0109),
Implementation	NIA1211: 1/2012-2013 (27.08.2012 - 21.12.2012)
Type	DEVELOPMENT OF CORE COMPETENCES IN THE FIELD (A030)
Groups	Primary: NIA11SN Others :
Involved in the project	
Lecturers	Paresh Rathod
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	Rathod Paresh (Teacher in charge)
Campus	Laurea Leppävaara
Main location for implementation	
Implementation method	Optima realization/student group, Other method of implementation, Project/venture/R&D, Web/virtual Language: English Virtuality: 0 cr Integration of R&D: 3 cr
Implementation class	
Focus areas	
Evaluation at the latest	19.01.2013 Storing of graded material ends.: 19.12.2013
Exam days	
Having completed the study unit the student is able to	• describe the structure of the World Wide Web as interconnected hypertext documents • create and validate HTML/XHTML documents • show how to display such documents in Web applications • demonstrate an understanding of dynamic web application development with markup languages. • describe the issues involved in developing a web interface • discuss and contrast data entry and validation techniques in client-side vs. server-side programming
Previous studies	Developing ICT Systems
Previous studies, more information	Developing ICT Systems (or) equivalent knowledge [For more information: Contact teacher in charge]
Learning objectives	The study unit introduces students to the developing and implementing process of ICT systems. Students are further deepens the knowledge of innovative rich internet applications(RIAs) development methodologies from the technical, business and social perspective. The goal of the study unit is to design, develop, and publish an innovative rich internet application using recommended design practices.
Contents	• web 2.0 rich internet application development methodologies • web-markup and display languages • web interfaces, Visual Elements and Graphics • web design, layouts and validation • web development, implementation and integration
Study material	Self-learning reference books: 1) Web Development and Design Foundations with XHTML(5th Edition) Author - Terry Felke - Morris 2) Principle of Web Design (4th Edition) Author - Joel Sklar
Evaluation criteria and methods	20% - Workshop & Competence of the subject area 30% - Team Project Work
Work strain	150 hours for each sectionWorkshops40 hours

Implementation plan Finished

	Individual Lab Work 30 hours
	LbD-project work 50 hours
	Self study, Guidance and Other 30 hours
	Total 150 hours

Learning events

Date	o'clock/at h	Subject	Content	Status	Teachers
03.09.2012	09.00-11.30	Laurea Live Seminar	Demo and seminar on new Laurea Live services	Tuomo	
10.09.2012	09.00-11.30	The Internet and World Wide Web	Workshop on Introduction and key concept of the Internet and World Wide Web	Computer Room	
17.09.2012	09.00-11.30	Workshop - Understanding the Web Design Environment	Workshop Details: HTML5 and XHTML are introduced, examples and exercises encourage students to create sample pages and gain useful experience	Computer Room	
24.09.2012	09.00-11.30	Group Activities	Group Work to design and develop individual web page using HTML5.	Computer Room	
01.10.2012	09.00-11.30	Workshop - Configuring Color and Text with CSS	Workshop Details: The technique of using Cascading Style Sheets (CSS) to configure the color and text on web pages.	Computer Room	
08.10.2012	09.00-11.30	Workshop - Visual Elements and Graphics	Workshop Details: The use of graphics and visual effects on web pages, including image optimization, CSS borders, CSS image backgrounds, new CSS3 visual effects, and new HTML5 elements.	Computer Room	
15.10.2012	09.00-11.30	Workshop - Web Design	Workshop Details: The hands on practices focuses on recommended web design practices and accessibility.	Computer Room	
22.10.2012	09.00-11.30	Group Activities	Group Work to design and develop individual web page using learn skills.	Computer Room	
29.10.2012	10.00-11.30	Workshop - Page Layout	Workshop Details: Continues the practice of CSS begun earlier and introduces techniques for positioning and floating web page elements, including a two-column CSS page layout. New HTML5 semantic	Computer Room	

**Implementation plan Finished**

				elements are also introduced.		
05.11.2012	10.00-11	30	Workshop - Web Links, Layout, and Mobile	Workshop Details: Introduces more advanced techniques related to hyperlinks, using CSS sprites, a three-column page layout, configuring CSS for print, and designing pages for the mobile web. CSS media queries are introduced as students configure a web page for both desktop and mobile display.	Computer Room	
12.11.2012	10.00-11	30	Workshop - Web page tables	Workshop Details: Focuses on the HTML elements used to create tables. Methods for configuring a table with CSS are introduced.	Computer Room	
19.11.2012	10.00-11	30	Workshop - Web Forms	Workshop Details: Focuses on the HTML elements used to create forms. Methods for configuring the form with CSS are introduced. New HTML5 form control elements and attribute values are introduced.	Computer Room	
26.11.2012	10.00-11	30	Workshop - Website Development	Workshop Details: Focuses on the process of website development, including the job roles needed for a large-scale project, the web development process, and web hosting.	Computer Room	
03.12.2012	10.00-11	30	Workshop - Web media and interactivity	Workshop Details: Covers topics related to adding media and interactivity to web pages. These topics include new HTML5 video and audio, Flash, Java applets, a CSS Image Gallery, new CSS3 transform and transition properties, JavaScript, and AJAX. Note - Student Quality Assurance Feedback	Computer Room	
10.12.2012	09.00-11	30	Learning Progress and	Learning progress -Test covering workshop 05-10 (For those students who participated in first test) -Test covering workshop 01-07 & 05-10 (For those students who missed the first test)	Computer Room	
17.12.2012	09.00-11	30	Project Presentation	Final Project Presentation and wrap up the study unit	Computer Room	