

Course code IFI8109	Planning and Running R and D Projects		
ECTS credits: 4	Contact hours: 18	Semester: Spring	Examination
Course objective:	Develop ability to plan, analyze and evaluate research and development (R&D) projects, as well understanding peculiarity of R&D projects.		
Brief description of course content:	<p>The concepts of projects and project management. Peculiarity and role of R&D projects in R&D activities. Composition methods and evaluation criteria of R&D projects. Planning R&D projects: determining an objective, research tasks/hypotheses, the title, activities/methodology. Resource planning, estimation of application potential. Reviewing R&D projects. Executing R&D projects. Application procedures and best practices. A number of R&D projects will be discussed.</p> <p>Independent work:</p> <ol style="list-style-type: none"> 1) Development and presentation of a research project plan, 2) Reviewing of a research project plan of a fellow student, 3) Development and presentation of a development project plan (team work). 		
Learning outcomes	<p>A student is:</p> <ul style="list-style-type: none"> • able to develop a R&D project plan • able to review an R&D project plan • aware of major problems of executing of R&D projects, and possibilities of their solving. 		
Assessment methods	Examination is based on the assessment of the following documents: 1) Plan of a research project – 40% of the grade, 2) plan of a development project – 40%, 3) review of a research project – 20%		
Responsible lecturer	Peeter Normak		
Title in Estonian	Teadus- ja arendusprojektide kavandamine ja täitmine		
Prerequisite course	None		
Compulsory literature	Public course materials can be found at http://www.tlu.ee/~pnormak/RD-projects Other materials will be sent to the students by e-mail.		
Replacement literature	Replacement literature is given to the students on individual bases, depending on the topic of the composed R&D projects.		
Subscription to the course and exam	All students of Information Society Technologies doctoral programme are eligible to subscribe to the course. The students who attended on at least 75% of classes are eligible to subscribe to the examination.		

	<p>The examination work consists of three parts:</p> <ol style="list-style-type: none"> 1) Research project plan; submission deadline – 28.02. 2) Review of a research project; submission deadline – 9.03. 3) Development project plan – submission deadline – 16.03. <p>For passing the examination, all three parts should be completed.</p>
Requirements for independent work	1) Completing home assignments; 2) Timely submission of the examination papers (two project plans and a review).
Assessment criteria	<p>1. Criterion (research project plan, 40% of the grade)</p> <p>A – The research project plan (<i>RP</i>) is excellent in most of the criteria stated in the <i>Guidelines</i> and very good in the others.</p> <p>B – The RP is very good in most of the criteria.</p> <p>C – The RP is good in most of the criteria.</p> <p>D – The RP is satisfactory in most of the criteria.</p> <p>E – The RP is satisfactory in most of the criteria and some important parts of project plans are missing.</p> <p>2. Criterion (review of a research project plan, 20% of the grade)</p> <p>A – The review and assessments are completely adequate and thorough.</p> <p>B – The review and assessments are adequate and thorough.</p> <p>C – The review and assessments have some gaps (some aspects are not discussed or receive inadequate review).</p> <p>D – The review and assessments have some deficiencies (some aspects are not discussed or receive inadequate/wrong review).</p> <p>E – The review and assessments have significant deficiencies (several aspects are not discussed or receive inadequate/wrong review)</p> <p>3. Criterion (development project plan, 40% of the grade)</p> <p>A – The development project plan (<i>DP</i>) is excellent in most of the criteria stated in the <i>Guidelines</i> and very good in the others.</p> <p>B – The DP is very good in most of the criteria.</p> <p>C – The DP is good in most of the criteria.</p> <p>D – The DP is satisfactory in most of the criteria.</p> <p>E – The DP is satisfactory in most of the criteria and some important parts of project plans are missing.</p>
Information about the content of the course	<p>The classes will normally take place on Tuesdays, at 11:45-13:15 in A-402, except for 18.02 and 11.03 – 11:45-15:45.</p> <p>28.01 Introduction to the course (incl. organization of the course and examination; determination of the interests and needs of the students). The basic concepts of project and project management. The role of R&D projects in R&D activities. Examples of R&D-projects. Methods of planning of R&D-projects.</p> <p>4.02 Analysis of home exercises. Evaluation criteria of R&D-project plans</p>

	<p>and reports. Peculiarity of R&D projects.</p> <p>11.02 Seminar: presentation and rationale of the objective of research projects.</p> <p>18.02 (4 hours) Analysis of home exercises. Planning of research projects: determining an objective, research tasks/hypotheses, the title, activities/methodology. Recourse planning, estimation of application potential. Analysis of research project plans.</p> <p>25.02 Seminar: presentation of research project plans.</p> <p>4.03 Analysis of home exercises. Reviewing of R&D projects. Planning of development projects.</p> <p>11.03 (4 hours) Analysis of home exercises. Usage of principles of general project management in executing R&D projects. Application procedures and best practices. Seminar: presentation of development projects.</p>
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Academic unit:	Institute of Informatics
Author of the course programme	Peeter Normak
Signature:	/signed digitally/
Date:	27.12.2013

Course programme is registered at the institute

Date:	17.01.2014
Study assistant:	Merilin Tohver
Signature:	