

Project Cycle Management in IT (CARNET)

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The aim of the course is to train students for a project approach to problems and situations in research and development projects (R&D) in ICT, which includes applying methods and tools characteristic of project management.

Working in teams, in the first part of the course, students will work on a standard IT project concept and conceptualize a software tool, with its user requirements. They will prepare an appropriate timeline, work breakdown structure, organizational breakdown structure, RACI matrix, financial plan, and a risk management plan.

In the second part, they will work in a team to extend the developed IT project concept, and create an R&D project proposal: they will prepare a project proposal for the EU funded projects in line with the requirements of a specific call (e.g. Erasmus+, European Structural and Investment Funds). Students will be able to use EU funds and programs for financing of development IT projects.

Suunniteltu ECTS: 4

Oppijoiden määrä: 35

Toimitustapa: Yhdistelmä

Status: SUUNNITTELUSSA

Kurssin julkinen pääsy: Yksityinen

Osallistujat:

Barbi Svetec

Kurssin oppimistavoite	Taso	Paino
Analyze the basic features of IT projects.	Analysointi	10
Apply project management methods and appropriate software tools to the project cycle of an IT project.	Soveltaminen	20
Create a financial plan, time plan and risk management plan.	Soveltaminen	15
Analyze EU programs and funds to support the funding of an IT R&D project.	Analysointi	10
Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork.	Luominen	20
Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases.	Analysointi	10
Evaluate a project application based on tender criteria and conditions.	arviointi	10
Plan competence development to support IT project management in the context of EU funds and programs.	Ymmärtäminen	5

Kokonaispaino: 100

Aihe / Yksikön nimi	Työmäärä	Oppimistyyppi	Toimitustapa	Ryhmät	Yhteistyö	Palaute	Mandatory activity	Arviointi		
								Pisteet	Tyyppi	Tarjoajat

Introduction to IT Projects and Priorities Plan competence development to support IT project management in the context of EU funds and programs. (10%) , Analyze the basic features of IT projects. (50%) , Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases. (10%)										
Understanding IT Projects										
Lecture on IT Project Fundamentals An instructor-led lecture covering the key concepts of IT projects, including basic definitions and specifics of IT projects.	45 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei
Group Discussion on IT Project Examples Students will discuss various examples of IT projects in small groups, identifying the core components and challenges of each example.	15 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Kyllä	Ei	Ei	Ei
Similarities and differences between IT projects and EU funded projects Teacher will inform students about basic concepts of EU funded projects to provide a big picture on the entire course content.	20 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei
Project Manager Profession Teacher will inform students about the PM profession and competences needed by project managers.	20 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei

Discussion on latest trends in IT project management Teacher will present some of the latest research in IT project management and encourage a discussion with students.	20 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Kyllä	Ei	Ei	Ei
Kokonaisyksikön työmäärä		2h								
Seminar - creating a project charter										
Analysis of IT projects financed from EU funds Students search and analyse IT projects financed from EU funds, from Erasmus+ and Horizon project databases, prior to lecture.	60 min	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Presentation and discussion on project ideas Students presents and discuss about the type of IT projects that can be financed from EU funds.	15 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Opettaja	Ei	Ei
Competency-Based Grouping Activity Students are divided into teams of 4 based on their competency assessment - it is important to cover students with different background (knowledge about project management, developer, specific knowledge in the field...). Another important aspect is student interest for certain horizontal priority!	15 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Kyllä	Ei	Ei	Ei

Project ideas brainstorming sprint Plan for brainstorming session (generated with ChatGPT): ◦ Phase 1: Research (5 minutes): Each team reviews a list of EU funding priorities (e.g., digital transformation, sustainability, or social inclusion). Briefly discuss the goals. ◦ Phase 2: Idea Generation (15 minutes): Teams brainstorm IT project ideas, ensuring they align with at least one EU funding priority. Choose the top 1-2 ideas. ◦ Phase 3: Project Brief (10 minutes): Teams outline the chosen project idea, specifying: ■ Project Title ■ Target Problem/Need ■ Target Group/Users ■ Expected Impact ■ Alignment with EU Priorities • Outcome: Each group presents their project idea briefly (2 minutes per team) at the end, focusing on its potential impact and alignment with EU funds.	30 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	Ei
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Project canvas Based on the idea, students create project canvas, including: • Project Name & Description: Short summary of the project idea. • Stakeholders: Key individuals or organizations involved or impacted. • Objectives & Goals: Main outcomes and objectives of the project. • Value Proposition: The unique value the project delivers. • Key Activities: Critical actions or steps needed to achieve objectives. • Resources: Key resources (e.g., people, tools, finances). • Timeline & Milestones: Major phases and milestones. • Risks & Assumptions: Potential risks and assumptions. • Budget: High-level budget estimate. • Success Metrics: Criteria to measure project success.	30 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	Ei
Kokonaisyksikön työmäärä	2.5h									
IT Project Management Methods and Tools Apply project management methods and appropriate software tools to the project cycle of an IT project. (30%) , Analyze the basic features of IT projects. (5%)										
Project management methodologies										
Project lifecycle Lecture including topics of project lifecycle and differences between project and product development.	30 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei

Project management methodologies Lecture on basics of traditional and agile methodologies, methods and tool for managing IT projects.	30 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei			
Students experiences with PM methodologies Plenary discussion with students on certain aspects of different PM methods and tool, and their application in practice.	30 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei			
Kokonaisyksikön työmäärä	1.5h												
Seminar on project methodologies													
The Agile Paper Airplane Game A simulation of scrum will be done though an interactive game: https://www.ppm.academy/post/the-agile-paper-airplane-game	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Ei	Ei	Ei			
Project idea refinement Based on the prepared project canvas, students present their idea in 3 minutes and receive feedback from teacher	45 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	0	Muodollinen	Opettaja	
Project implementation in a tool Students have to explore and choose one of the PM tool in which they will plan and manage their projects (i.e. Asana, Trello, Jira...)	60 min	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	5	Muodollinen	Opettaja	
Kokonaisyksikön työmäärä	2.5h												

Estimating Cost and Schedule													
Cost and Schedule Teacher presents basic cost and scheduling techniques.	60 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei			
Discussion and example of project scheduling Discussion on examples of projects estimations	90 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei			
Exploring the examples Students explore examples of different projects, related to their estimation and scheduling	90 min	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei			
Kokonaisyksikön työmäärä	4h												
Seminar on estimating cost and schedule													
Estimating project duration Students have to create CPM and Gantt chart for their project	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Ei	Ei	Ei			
Estimating project cost Students have to prepare project cost estimation, including direct and indirect costs	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Ei	Ei	Ei			
Preparing final schedule and cost estimation Students have to prepare project cost and schedule estimation in a tool	60 min	Harjoittelu	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Opettaja, Muu	Ei	0	Muodollinen	Opettaja	
Kokonaisyksikön työmäärä	2.5h												

Plan competence development to support IT project management in the context of EU funds and programs. **(20%)**, Apply project management methods and appropriate software tools to the project cycle of an IT project. **(20%)**, Analyze the basic features of IT projects. **(10%)**

Introduction to staffing in IT projects Teacher presents topics related to staffing in IT projects, including Organizational Breakdown Structure (OBS) and RACI matrix	60 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei
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Roles in IT projects Students discuss on different roles in IT projects, including IT project manager, scrum master, product owner, developers etc.	30 min	Keskustelu	Paikan päällä	Synnynkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei
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Kokonaisyksikön työmäärä	1.5h
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Creation of OBS Students create OBS for their project	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Ei	Ei	Ei
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Creation of RACI matrix Students create RACI matrix for their project	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Ei	Ei	Ei
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Kokonaisyksikön työmäärä	1.5h
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Periodical Exam 1

Plan competence development to support IT project management in the context of EU funds and programs. **(20%)**, Apply project management methods and appropriate software tools to the project cycle of an IT project. **(20%)**, Create a financial plan, time plan and risk management plan. **(10%)**, Analyze the basic features of IT projects. **(20%)**, Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases. **(20%)**

Preparation

Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Harjoittelu	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Harjoittelu	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Preparation for the Exam Student independently prepare for the periodical exam.	60 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei

Kokonaisyksikön työmäärä	9h
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Exam

Taking Part in the Exam Student take the exam.	45 min	Arviointi	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	20	Yhteenvetona	Opettaja, Automaattinen
Reflection on the Results Students reflect on the results of the exam based on the analysis presented by the teacher.	30 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Opettaja	Ei	Ei		
Kokonaisyksikön työmäärä	1.25h											
Final IT Project Applications and Evaluation												
Final Project Applications and Evaluation												
Finalization of IT Project Applications Teams work collaboratively to finalize their IT project applications, integrating feedback received throughout the course.	300 min	Tuotanto	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei		
Project Evaluation From Students will analyze the evaluation criteria for IT projects. Based on that, they will make further adjustments to their IT project applications.	60 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei		
Teacher and Employer Assessment of IT Projects Students submit their final project proposals. The teacher and employers will assess the final projects.	30 min	Arviointi	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	20	Yhteenvetona	Opettaja, Vertais
Kokonaisyksikön työmäärä	6.5h											

R&D Project: EU Funding Opportunities and Case Studies Plan competence development to support IT project management in the context of EU funds and programs. (20%) , Analyze EU programs and funds to support the funding of an IT R&D project. (70%)										
EU strategic planning of funding programs & EU programs										
Lecture on EU Strategic Planning and Funding Programs This lecture will provide an overview of the EU's strategic planning of funding programs, covering the Horizon scanning, the main goals, priorities, and structure of key funding programs such as Horizon Europe, Erasmus+, and the European Structural and Investment Funds. Students will gain an understanding of how these programs contribute to R&D projects in IT.	45 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei
Group Discussion on EU Funding Criteria Students will be given several examples of funded IT-related projects. In this discussion session, students will engage in a group discussion focusing on the eligibility criteria and evaluation process for EU funding of IT projects. They will critique and debate how these criteria influence project planning and execution.	45 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Ei	Opettaja, Vertais	Ei	Ei

Investigating EU policy creation and programs characteristics Students work independently and investigate on their own Horizon Scanning publications and different EU programs based on provided e-book, links and material in Moodle and external sources. Additionally, they research EU fund absorption capacity and project success factors.	120 min	Tutkimus	Verkkotyöskentely	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Kokonaisyksikön työ määrä	3.5h											
IT project ideas and EU programs												
Case Study Analysis of Funded IT Projects Students will investigate and analyze case studies of successful IT projects funded by the EU. This activity will involve searching for relevant documentation, identifying key factors that contributed to their approval, and discussing these findings in groups. Students will classify several projects into suitable programs.	30 min	Tutkimus	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	1	Muodollinen	Opettaja
Exercise on Preparing Project idea A practical workshop where students will work in teams to develop a mock project idea for an EU-funded IT R&D project. They will create elements basic description of the project and find appropriate project calls for which the project idea can be eligible.	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei		

Peer Review Session of Proposal Drafts Students will exchange their draft proposals with peers and provide detailed feedback. This peer review session focuses on evaluating the completeness, coherence, and feasibility of the proposals, encouraging students to refine their ideas based on peer suggestions.	15 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei
Reflection on project idea Based on the inputs from the other team, the project team investigates further and prepares a new project idea.	60 min	Tutkimus	Hybrid	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei
Kokonaisyksikön työmäärä	2.5h									
Needs Analysis and Project Charter Analyze EU programs and funds to support the funding of an IT R&D project. (10%) , Evaluate a project application based on tender criteria and conditions. (10%) , Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork. (30%)										
Needs analysis in line with EU program requirements										

Creating project chartner												
Developing an Objectives Tree Students work in teams to finish the problem trees and identify the wider and specific objectives of their project proposal.	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei		
Starting a Project Charter Students will start preparing a project charter. They will consider the funding program priorities, possible partners, overall budget and duration, in line with the chosen line of financing.	45 min	Tutkimus	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei		
Project Charter & Needs Analysis Assignment Students will practice writing a needs analysis document for a mock IT R&D project, ensuring alignment with EU program requirements. They will prepare a problem tree and an objectives tree (supported by references - policy documents, research papers, previous projects) and develop a project charter.	90 min	Harjoittelu	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	3	Muodollinen	Opettaja
Kokonaisyksikön työmäärä	3h											
Logical Framework Matrix Apply project management methods and appropriate software tools to the project cycle of an IT project. (10%), Create a financial plan, time plan and risk management plan. (10%), Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork. (20%)												
Introduction to Logical Framework Matrix												

Video on Logical Framework Matrix Basics Students will watch a video that provides an overview of the Logical Framework Matrix (LFM), including its purpose, structure, and application in project management. Key concepts such as goals, objectives, outputs, and activities will be discussed.	30 min	Hankinta	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Lecture: Plenary Discussion Students will discuss the LFM basics and have an opportunity to ask questions during class time with a teacher.	30 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Opettaja, Vertais	Ei	Ei
Group Discussion on Example LFMs Students are presented with examples of Logical Framework Matrices from past projects. They participate in a group discussion, where they will analyze and critique the examples. This will help them understand how to effectively use the matrix and how to identify common mistakes.	20 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei
Practical Exercise: Starting a Draft of a Logical Framework Matrix Working in teams, students will start drafting a Logical Framework Matrix for their project. In this first step, they will fill in the first column and the second row. They will present their drafts to the class for feedback.	40 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei

Investigation Activity: Researching Successful LFM Applications Students will independently research online and offline resources to find case studies and examples of successful applications of the Logical Framework Matrix. They will gather information on best practices and look for examples of indicators and measures of indicators.	60 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Kokonaisyksikön työmäärä	3h									
Developing a Logical Framework Matrix for IT Projects										
Pre-Class Research on Indicators Students engage in individual research to identify suitable indicators for their IT project proposals. They will explore various resources, including EU-funded project databases, to understand which indicators align well with their specific objectives and strategic goals.	45 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Teamwork: Constructing an LFM Building on the first draft and their findings on indicators, students will continue working on the LFM for their IT project. They will further develop project objectives, results, activities, and indicators. Students will align their LFM with the strategic goals of their proposed EU-funded projects.	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei

Discussion on WBS Examples In class, the teachers presents students with examples of WBSs from real projects. The examples are discussed based on the questions given by the teacher (e.g., what is the difference in WPs considering the rules of different calls; how many levels and WPs seems plausible with regard to projects of different complexity and budget; where are the WBS elements placed in an LFM).	45 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Kyllä	Opettaja, Vertais	Ei	Ei
Lecture: Dissemination Students engage in a lecture with discussion on dissemination.	25 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei
Lecture: Project Management Students engage in a lecture with discussion on project management in the context of an international R&D project compared to an IT project performed by one provider.	20 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei
Preparing a WBS for the R&D project Students reflect on their knowledge on WBS from the first part of the course, reading materials and their LFM and prepare the first draft of the WBS for their R&D project.	90 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei
Kokonaisyksikön työmäärä		3h								
Dissemination and Timeline										
Discussion on WBSs Teams present the WBSs for their R&D projects and get feedback from teachers and peers.	45 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei
Dissemination Plan Working in teams, students prepare dissemination plans for their R&D projects.	30 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Ei	Ei	Ei

Peer Review and Feedback on the Dissemination Plan Teams switch their dissemination plans and provide peer feedback. They can also ask the teacher for feedback.	15 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	0	Muodollinen	Opettaja, Vertais
Finalizing the Dissemination Plan Teams finalize their dissemination plans, incorporating the received feedback. They submit the assignment for assessment.	60 min	Tuotanto	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Opettaja	Ei	2	Muodollinen	Opettaja
Kokonaisyksikön työmäärä	2.5h											
Budget of an R&D Project Create a financial plan, time plan and risk management plan. (30%) , Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork. (10%)												
Understanding EU R&D Project Financing Rules												
Independent Investigation on Financial Rules Students investigate the financial rules of the given call ahead of the class.	60 min	Hankinta	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Lecture and Discussion on EU R&D Project Financing Rules Students will attend a lecture where they discuss with the teacher the specific financing rules of EU-funded R&D projects. The session will cover the categories of eligible costs and how funds are allocated for different activities and work packages.	30 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei		

Quiz on Project Financing Students will take a short quiz covering the basics of project financing.	10 min	Arviointi	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	1	Muodollinen	Automaattinen
Investigation of Previous Funded Projects Students will investigate examples of previous R&D projects that were successfully funded by the EU. They will explore and analyze the financial structures and allocations presented in these project proposals, gaining insights into practical applications of the rules.	20 min	Tutkimus	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	Ei		
Starting a Draft Financial Plan for an R&D Project Students will start creating a basic financial plan for their R&D project. They will categorize eligible costs and allocate funds in accordance with the EU financing rules learned in the unit.	30 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	Ei		
Kokonaisyksikön työmäärä	2.5h											
Developing a Detailed Project Budget												
Budget Breakdown Workshop Students will work to estimate costs and categories of costs for each work package. Facilitated by teachers, the workshop will provide guidance and feedback on appropriate cost allocation.	45 min	Harjoittelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	Ei		
Budget Proposal Presentation and Feedback Each project team will consolidate their budgeting efforts into a formal presentation that outlines their financial plan, cost justifications, and alignment with financing rules. This presentation will be assessed by teachers and peers.	45 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja, Vertais	Ei	Ei		

Finalizing the R&D Project Budget Students will work in teams to finalize the budget for their R&D projects, incorporating the received feedback. They will submit the assignment for assessment.	90 min	Tuotanto	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Opettaja	Ei	3	Muodollinen	Opettaja
Kokonaisyksikön työmäärä	3h											
Impact Plan, Implementation, Monitoring, and Reporting Plan competence development to support IT project management in the context of EU funds and programs. (20%) , Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases. (20%) , Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork. (5%)												
Impact and Implementation of R&D Projects												
Lecture on Impact Planning and Implementation Students will attend a lecture that provides an overview of theoretical insights and practical guidelines on impact planning, implementation, and monitoring of R&D projects. The lecture will address key components such as analyzing roles and responsibilities, preparing a detailed impact plan, and ensuring the fulfillment of project goals.	45 min	Hankinta	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	Ei		

Case Study on Successful R&D Project Implementation Students will investigate real-world case studies of successful R&D project implementations. This activity involves exploring project documentation to identify critical success factors, challenges, and the methods used to address them in alignment with EU project rules. Student will be provided with project reports, impact plans, evaluations.	45 min	Tutkimus	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Ei	Ei	Ei
Kokonaisyksikön työmäärä	1.5h									
Consolidation of an R&D Project Proposal										
Workshop: Developing an Impact Plan In a hands-on workshop, students will work in teams to create a detailed impact plan for their R&D project proposal. They will be tasked with drafting strategies to ensure consistent monitoring and successful achievement of the predefined impacts.	45 min	Tuotanto	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	Ei
Draft Project Application Teams will consider the project application form (in line with the call) and ask the teacher any questions related to the finalization of the project proposal.	45 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Kyllä	Kyllä	Opettaja	Ei	Ei
Kokonaisyksikön työmäärä	1.5h									

Periodical Exam 2 Plan competence development to support IT project management in the context of EU funds and programs. (10%) , Create a financial plan, time plan and risk management plan. (10%) , Analyze EU programs and funds to support the funding of an IT R&D project. (20%) , Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases. (20%) , Evaluate a project application based on tender criteria and conditions. (10%) , Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork. (5%)										
Preparation										
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Harjoittelu	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Harjoittelu	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei

Preparation for the Exam Student independently prepare for the periodical exam.	60 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Ei	Ei	Ei	Ei	Ei		
Kokonaisyksikön työmäärä	9h											
Exam												
Taking Part in the Exam Student take the exam.	45 min	Arviointi	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	20	Yhteenvetona	Opettaja, Automaattinen
Reflection on the Results Students reflect on the results of the exam based on the analysis presented by the teacher.	30 min	Keskustelu	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Opettaja	Ei	Ei		
Kokonaisyksikön työmäärä	1.25h											
Final Project Applications and Evaluation Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases. (20%) , Evaluate a project application based on tender criteria and conditions. (50%) , Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork. (20%)												
Final Project Applications and Evaluation												
Finalization of R&D Project Applications Teams work collaboratively to finalize their R&D IT project applications, integrating feedback received throughout the course and aligning with specific EU tender criteria.	300 min	Tuotanto	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei		

Project Evaluation From Students will analyze the evaluation criteria for R&D IT projects. Based on that, they will make further adjustments to their R&D project applications.	60 min	Tutkimus	Paikan päällä	Asynkroninen	Opettaja ei läsnä	Kyllä	Kyllä	Ei	Ei	Ei		
Peer Review and Teacher Assessment of Project Applications Students submit their final project proposals and participate in a peer review session, evaluating each other's project applications based on the tender criteria and conditions. They provide feedback to peers to improve the quality of the applications. Teacher will assess the final applications.	180 min	Arviointi	Paikan päällä	Synnkroninen	Opettaja läsnä	Ei	Ei	Ei	Ei	35	Yhteenvetona	Opettaja, Vertais
Kokonaisyksikön työmäärä	9h											
Kokonaiskurssin työmäärä	91.25h											