Project Cycle Management in IT v.2.

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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.

Geplante ECTS: 4

Anzahl der Lernenden: 35

Bereitstellungsmodus: Blended

Status: IN PLANUNG

Öffentlicher Zugang zum Kurs: Privat

Mitwirkende:
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Kurs-Lernergebnis	Niveau	Gewicht
Analyze the basic features of IT projects.	Analysieren	10
Apply project management methods and appropriate software tools to the project cycle of an IT project.	Anwenden	20
Create a financial plan, time plan and risk management plan.	Anwenden	15
Analyze EU programs and funds to support the funding of an IT R&D project.	Analysieren	10
Create a project application for an R&D IT project based on a tender for EU funding through collaborative teamwork.	Erstellen	20
Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases.	Analysieren	10
Evaluate a project application based on tender criteria and conditions.	Bewerten	10
Plan competence development to support IT project management in the context of EU funds and programs.	Verstehen	5
		Gesamtgewicht: 100

Thema / Einheitsname	Arbeitsbelastung	Lernart	Lieferart	Gruppen	Zusammenarbeit	Rückmeldungen	Mandatory activity	Bewertung		
								Punkte	Typ	Anbieter

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. (**40%),** 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 specifities of IT projects.	45 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Ja	Nein	Nein	Nein
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	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Project Manager Profession Teacher will inform students about the PM proffession and competences needed by project managers.	20 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein

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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Ja	Nein	Nein	Nein
Independent learning Students use the material and links in Moodle for further investigation and independent learning.	120 min	Untersuchung	Online	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	4h									
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	Untersuchung	Online	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Lehrer	Nein	Nein
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	Übung	Vor Ort	Synchron	Lehrer anwesend	Nein	Ja	Nein	Nein	Nein

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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein

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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein
Gesamtarbeitsbelastung der Einheit	2.5h									
IT Project Management Methods and Tools Apply project management methods and appropriate software tools to the project cycle of an IT project. (**40%),** 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	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein			
Project management methodologies Lecture on basics of traditional and agile methodologies, methods and tool for managing IT projects.	30 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein			
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein			
Gesamtarbeitsbelastung der Einheit	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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein			
Project idea refinement Based on the prepared project canvas, students present their idea in 3 minutes and receive feedbak from teacher	45 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	0	Formativ	Lehrer	
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	Untersuchung	Online	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	5	Formativ	Lehrer	
Gesamtarbeitsbelastung der Einheit	2.5h												

IT Project Requirements (+Communication) and Work Breakdown Structure Create a financial plan, time plan and risk management plan. (**10%),** Analyze the basic features of IT projects. (**5%)**										
Project requirements and WBS										
Lecture on requirements Teacher presents basic concepts related to functional, non-functional requirements and other project requirements.	30 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Lecture on WBS Teacher presents basic concepts related to WBS in It projects.	30 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Examples of project requirements and WBS Students recognize some project requirements and WBS based on their previous projects.	30 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	1.5h									
Seminar on project requirements and WBS										

Defining project requirements Students have to define project requirements, including: • **Functional Requirements** which define **what** the software should do. • **Non-Functional Requirements** which specify **how** the system should perform. • **Project Requirements** which provide the **constraints and conditions** for the project's execution and management.	45 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein
Creating project WBS Students have to create WBS including at least 4 levels, i.e.: • **Level 1**: Project Name (e.g., "E-commerce Website Development") • **Level 2**: Major Deliverables/Phases (e.g., "Development and Coding") • **Level 3**: Sub-deliverables or Components (e.g., "Develop Front-End") • **Level 4**: Work Packages or Tasks (e.g., "Code homepage layout")	45 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein
Gesamtarbeitsbelastung der Einheit	1.5h									
## Project Timeline and Financial Planning in IT Projects Create a financial plan, time plan and risk management plan. (**10%),** Analyze the basic features of IT projects. (**5%),** Analyze project success criteria and the importance of making valid and timely decisions in project cycle phases. (**10%)**										

Estimating Cost and Schedule													
Cost and Schedule Teacher presents basic cost and scheduling techniques.	60 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein			
Discussion and example of project scheduling Discussion on examples of projects estimations	90 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein			
Exploring the examples Students explore examples of different projects, related to their estimation and scheduling	90 min	Untersuchung	Online	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein			
Gesamtarbeitsbelastung der Einheit	4h												
Seminar on estimating cost and schedule													
Estimating project duration Students have to create CPM and Gantt chart for their project	45 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein			
Estimating project cost Students have to prepare project cost estimation, including direct and indirect costs	45 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein			
Preparing final schedule and cost estimation Students have to prepare project cost and schedule estimation in a tool	60 min	Übung	Online	Asynchron	Lehrer nicht anwesend	Ja	Ja	Lehrer, Sonstiges	Nein	0	Formativ	Lehrer	
Gesamtarbeitsbelastung der Einheit	2.5h												

Organizational Breakdown Structure and RACI Matrix 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%)**										
Lecture on OBS										
Introcution to staffing in IT projects Teacher presents topics related to staffing in IT projects, including Organizational Breakdown Structure (OBS) and RACI matrix	60 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Roles in IT projects Students discuss on different roles in IT projects, including IT project manager, scrum master, product owner, developers etc.	30 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	1.5h									
Seminar of staffing in IT projects										
Creation of OBS Students create OBS for their project	45 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein
Creation of RACI matrix Students create RACI matrix for their project	45 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	1.5h									

Risk Management in IT projects Create a financial plan, time plan and risk management plan. (**10%),** Analyze the basic features of IT projects. (**5%)**										
Lecture on risk management in IT projects										
Risk management plan Plenary lecture on risk management that involves identifying, assessing, prioritizing, and mitigating potential risks that could impact project objectives such as scope, budget, timeline, and quality.	60 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Discussion on risk project management Examples, and group discussions	30 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	1.5h									
Seminar on risk management										
Creating risk management plan Students prepare risk management plan for their projects.	60 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein
Discussion on risk management plan Students presents their risk management plan and receive feedback from teachers and peers	30 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein
Gesamtarbeitsbelastung der Einheit	1.5h									

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	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Übung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Übung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	60 min	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	9h									

Exam												
Taking Part in the Exam Student take the exam.	45 min	Bewertung	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	20	Summativ	Lehrer, Automatisiert
Reflection on the Results Students reflect on the results of the exam based on the analysis presented by the teacher.	30 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Lehrer	Nein	Nein		
Gesamtarbeitsbelastung der Einheit	1.25h											
Final IT Project Applications and Evaluation 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%),** Evaluate a project application based on tender criteria and conditions. (**20%)**												
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	Produktion	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	Nein		
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.	90 min	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	Nein		

Teacher and Employer Assessment of IT Projects Students submit their final project proposals. The teacher and employers will assess the final projects.	30 min	Bewertung	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	20	Summativ	Lehrer, Kollege
Gesamtarbeitsbelastung der Einheit	7h											
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	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein		

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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Nein	Lehrer, Kollege	Nein	Nein		
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	Untersuchung	Online	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein		
Gesamtarbeitsbelastung der Einheit	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	Untersuchung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	1	Formativ	Lehrer

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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein
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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein
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	Untersuchung	Hybrid	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	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										

Introduction to needs analysis for EU Programs and Funding The teacher will present a need analysis for various EU funding programs relevant to IT R&D projects as well as evaluation criteria that include need analysis. How to find similar projects, and research papers to support project ideas? How to build problem tree?	30 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
Interactive Discussion: Aligning Project Needs with EU Requirements In small groups, students will discuss how to align a project's specific needs with the eligibility criteria of suitable EU programs. They will articulate their understanding and challenge each other's ideas on the best programs for hypothetical project scenarios.	20 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein
Lesson: Problem tree - project objective tree Students watch a short video on problem tree and objective tree construction or listen the lecture on the topic.	20 min	Erwerb	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Starting a Problem Tree In teams, students discuss the most pressing issues related to their project idea. They start building a problem tree.	20 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein
Investigative Task: Researching EU Funding Program Criteria Students will independently investigate different EU funding programs. They will compare criteria, eligible activities, and application processes, documenting their findings in a comprehensive report.	30 min	Untersuchung	Online	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	2h									

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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein		
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	Untersuchung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein		
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	Übung	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	3	Formativ	Lehrer
Gesamtarbeitsbelastung der Einheit	3h											
Logical Framework Matrix 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	Erwerb	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Lecture: Plenary Discussion Students will discuss the LFM basics and have an opportunity to ask questions during class time with a teacher.	30 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Lehrer, Kollege	Nein	Nein
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein
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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein

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	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	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	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein

Peer Review and Feedback to LFM Teams will present their draft LFM to peers for critique. They will receive constructive feedback aimed at improving clarity, alignment with project objectives, and comprehensiveness of risk management strategies. This activity helps students refine their projects based on peer insights.	45 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein		
Finalizing the LFM Based on the received feedback, students will further upgrade the draft LFM for their IT projects. They will submit the final version for assessment.	60 min	Produktion	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Lehrer	Nein	3	Formativ	Lehrer
Gesamtarbeitsbelastung der Einheit	3.25h											
Work Breakdown Structure, Dissemination, Project Management and Timeline of an R&D Project 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. (**10%)**												
Work Breakdown Structure												

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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Ja	Lehrer, Kollege	Nein	Nein
Lecture: Dissemination Students engage in a lecture with discussion on dissemination.	25 min	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein
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	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein
Dissemination Plan Working in teams, students prepare dissemination plans for their R&D projects.	30 min	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein

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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	0	Formativ	Lehrer, Kollege
Finalizing the Dissemination Plan Teams finalize their dissemination plans, incorporating the received feedback. They submit the assignment for assessment.	60 min	Produktion	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Lehrer	Nein	2	Formativ	Lehrer
Gesamtarbeitsbelastung der Einheit	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 financal rules of the given call ahead of the class.	60 min	Erwerb	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein		
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein		

Quiz on Project Financing Students will take a short quiz covering the basics of project financing.	10 min	Bewertung	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	1	Formativ	Automatisiert
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	Untersuchung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein		
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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein		
Gesamtarbeitsbelastung der Einheit	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	Übung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein		
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer, Kollege	Nein	Nein		

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	Produktion	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Lehrer	Nein	3	Formativ	Lehrer
Gesamtarbeitsbelastung der Einheit	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	Erwerb	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	Nein		

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	Untersuchung	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Nein	Nein	Nein
Gesamtarbeitsbelastung der Einheit	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	Produktion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein
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	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Ja	Ja	Lehrer	Nein	Nein
Gesamtarbeitsbelastung der Einheit	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.	60 min	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	180 min	Übung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Übung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	120 min	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein
Preparation for the Exam Student independently prepare for the periodical exam.	180 min	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Nein	Nein	Nein	Nein	Nein

Gesamtarbeitsbelastung der Einheit	11h											
Exam												
Taking Part in the Exam Student take the exam.	60 min	Bewertung	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	20	Summativ	Lehrer, Automatisiert
Reflection on the Results Students reflect on the results of the exam based on the analysis presented by the teacher.	30 min	Diskussion	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Lehrer	Nein	Nein		
Gesamtarbeitsbelastung der Einheit	1.5h											
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. (**60%),** 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	Produktion	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	Nein		

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	Untersuchung	Vor Ort	Asynchron	Lehrer nicht anwesend	Ja	Ja	Nein	Nein	Nein		
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	Bewertung	Vor Ort	Synchron	Lehrer anwesend	Nein	Nein	Nein	Nein	30	Summativ	Lehrer, Kollege
Gesamtarbeitsbelastung der Einheit	9h											
Gesamtarbeitsbelastung des Kurses	**96h**											