

Course Specification Document

Title	Information Technology Project Management
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Credits	2.5 ECTS
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Aims	This course aims to consolidate and build upon aspects learned by the student in the project management course, with a focus on the specificity of information technology projects. It provides the student with a set of necessary tools for managing the diverse aspects of information projects within various work environments.
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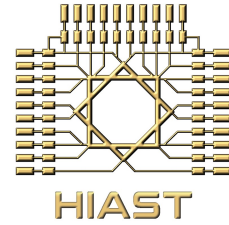
Intended learning outcomes

On successful completion of this course, the student will be able to:

- Explain the interconnections between project determinants and highlight distinctive features of software development projects.
- Understand the nature of the relationship between the development team and the client, and explain how roles are distributed between them.
- Identify the managerial competencies necessary for the development team and relate them to the technical path for project implementation.
- Justify the estimates provided by the development team regarding the costs of work in the project.
- Effectively contribute to the analysis of project-related risks, evaluate them, and systematically categorize them;
- Apply some common methods to estimate the size and cost of the human effort required for the development of an information system;
- Contribute to the preparation of specifications for the development and evaluation of information systems;
- Prepare an internal and external communication plan and implement it.

Syllabus

- **Project management fundamentals:** The concepts of project and project management, project life cycle, knowledge areas in project management.
- **Introduction to information technology projects:** Information technology industry, strategic dimensions of information technology, characteristics and patterns of information technology projects, methodologies and processes for software system development.
- **Project management in the context of information technology:** The system approach to project management, project life cycle and development process, modern trends in information technology project management.



- **Procurement management in information technology projects:** Alternatives for internal system development, purchasing process and contracts.
- **Methods for effort estimation in information technology projects:** Decomposition and aggregation principle in effort estimation, effort estimation models in information technology projects (CoCoMo - FPA – Use Case – Story Points).
- **Risk management in information technology projects.**
- **Team management in information technology projects.**
- **Stakeholder management and communication in information technology projects.**
- **Agile management of information technology projects.**