

Why Project Management: from Nano to Mega?

- You get acquainted with the theory behind project management but you also experience how to work in multidisciplinary project teams
- You will obtain multiple examples from project management practices in different technical domains
- Several teachers in this minor have experience in performing (large) projects in companies like ASML, AT Osborne, Shell and TNO
- You learn how to write a thorough project execution plan

What students are we looking for?

- BSc students from all TU Delft faculties with an interest in multidisciplinary project management in the technical domain (ranging from Nano technology to Mega structures)
- BSc students from other universities with an interest in the management of technical projects

Information

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CT-MI-174

Minor Project Management: from Nano to Mega

- **What are the real success factors for managing technical projects?**
- **How to successfully work in project teams?**
- **What is fit-for-purpose project management?**

Project Management: from Nano to Mega

Projects are the way of organizing relevant pieces of work in today's society. With the minor "Project Management: from Nano to Mega" we teach students the basic principles of project management for technical projects in a broad sense. It starts with a general basis of project management, combined with the important economic framework around projects. At the same time students are challenged to work in "real" project teams. In the second quarter the knowledge on project management is deepened by studying processes and decision making around projects. Furthermore, different project management approaches for different types of projects are compared and illustrated by projects ranging from product development projects in the Nano industry, via (large) engineering projects, towards Mega projects like exploring tar sands as well as public infrastructure projects.

This minor was developed based on its predecessors "Project Management" and "Projectmanagement van Bouwprojecten". All courses in this minor are taught in English.

 **TU Delft** Delft University of Technology

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Courses in this Minor

Schedule

Q1	CT3101 Project Management Basics	CT3102 Financial and Legal Aspects of Projects	CT3103 Integration: Technical Project
Q2	TPM610A Process Management and Decision Making	CT3104 Fit-for-Purpose Project Management	



Project Management Basics [5 ECTS]

In this course general PM principles are taught: iron triangle, trade-offs, scoping, scheduling, risk management, monitoring and control, project start-up, project close-out, etc. The project life-cycle acts as a basis. Project success is elaborated: what seems successful at first sight might be very unsuccessful and vice versa. This course is based on lectures with several assignments.

Experiences from students in the predecessor programs

“It really broadened my view, compared to my technical Bachelor program”

“The minor gave me a good impression about project management in real companies”

Quote

Financial and Legal Aspects of Projects [5 ECTS]

This course focuses on the economic and legal aspects of projects: the more financial and business side of projects. What is the added value of a project for the company and how do projects fit in the total portfolio of an organization? Also contracting methods are discussed. This course is based on lectures with several assignments.

Fit-for-purpose Project Management [5 ECTS]

This course focuses on fit-for-purpose project management: tailoring project management to particular types of projects. Project management practice is illustrated using various cases (a.o. oil and gas industry, infrastructural works, innovation projects, ICT-industry or manufacturing). Student teams have to write essays, leading to their own fit-for-purpose project management approach.

Integration: Technical Project [10 ECTS]

In this course, the gained knowledge is combined and applied in a multidisciplinary project consisting of writing and delivery of a project execution plan and the (partial) execution of such a plan in competitive setting. Working in small teams, also the “people side” of projects is studied. This course combines the student’s BSc background with the PM knowledge obtained in this minor.



Process Management and Decision Making [5 ECTS]

This course teaches students to recognize a process management approach in a context where the primary paradigm is project management. Recognizing the process management approach in practice enables students to develop and extend their future set of tools and knowledge, next to a project management approach. The focus is on assessed assignments in teams.

