

FACULTY OF SOCIAL SCIENCES AND TECHNOLOGY MANAGEMENT

MSC-PROGRAMME IN PROJECT MANAGEMENT (MSPROMAN)

Term 1, 2, 3 and 4

| Ex | Subject no. | Subject title | Note | Cr | Specialization | | |
|----|-------------|--|------|------|----------------|---|---|
| | | | | | 1 | 2 | 3 |
| | | Compulsory courses | 1 | | | | |
| 1h | TBA5200 | PROJ PLAN/ANALYSIS | | 7,5 | o | o | o |
| 1h | TIØ5200 | PROJ ORG | | 7,5 | o | o | o |
| 1h | TPK5100 | PROJ PLAN/CONTR | | 7,5 | o | o | o |
| 1v | - | EXP IN TEAM INT PROJ | | 7,5 | o | o | o |
| 1v | TIØ5210 | PROGRAM MGMT | | 7,5 | o | o | o |
| 1v | TIØ5215 | GLOB GOV OF SUPPLY | | 7,5 | o | o | o |
| | | Optional courses | 1 | | | | |
| 1h | TBA4315 | ECONOM/TRANSP INFRA | | 7,5 | v | - | - |
| 1h | TIØ4265 | STRATEGIC MANAGEMENT | | 7,5 | - | v | - |
| 1h | TPK5160 | RISK ANALYSIS | | 7,5 | - | - | v |
| 1v | TGB5110 | ENG GEO/TUNNEL BC | | 7,5 | v | - | - |
| 1v | TIØ4175 | PURCH LOG MGMT | | 7,5 | - | v | - |
| 1v | TPK4110 | QUAL/PERFORMANCE | | 7,5 | - | - | v |
| | | Compulsory and optional courses | 2 | | | | |
| 2h | TPK5115 | RISK MANAGEM PROJ | | 7,5 | v | - | v |
| 2h | TIØ4345 | MAN BUS RELAT/NETW | | 7,5 | - | v | - |
| | | Specialization courses | | | | | |
| 2h | TBA4128 | PRO MAN AC | | 7,5 | o | - | - |
| 2h | TIØ5225 | PRO MAN SC | | 7,5 | - | o | - |
| 2h | TPK4420 | PROJECT FLEXIBILITY | | 7,5 | - | - | o |
| | | Specialization projects | | | | | |
| 2h | TBA4530 | PRO MAN SP | | 15,0 | o | - | - |
| 2h | TIØ5230 | PRO MAN SP | | 15,0 | - | o | - |
| 2h | TPK4520 | PRO/QUAL MAN SP | | 15,0 | - | - | o |
| | | Master Thesis | | | | | |
| 2v | TBA4910 | PROJ MANAGEMENT | | 30,0 | o | - | - |
| 2v | TIØ4920 | PROJ MANAGEMENT | | 30,0 | - | o | - |
| 2v | TPK4920 | PROJ/QUAL MANAGEMENT | | 30,0 | - | - | o |

o - compulsory courses

v - optional courses

Ex 1h = Term 1, Exam Autumn

Ex 1v = Term 2, Exam Spring

Ex 2h = Term 3, Exam Autumn

Ex 2v = Term 4, Master Thesis Spring

- 1) In addition to the compulsory courses, the student must select 15 cr relevant for their technological specialization. Optional courses listed are recommended, but students may substitute other courses from the same department with Faculty permission.
- 2) In the second year, the student will choose a specialization project, specialization course and master thesis corresponding to the technological specialization chosen in the first year. In addition, they need an extra course in 3rd semester. Recommended courses are shown in the table, but students may substitute other courses from the same department with Faculty permission.

Specialization:

1. Civil Engineering
2. Industrial Engineering
3. Production and Quality Engineering

Vision

The vision for this programme is to give students with a technological background a comprehensive understanding of the economic, managerial and environmental challenges linked to managing technology-oriented projects, in order to make them capable of analyzing, improving and implementing changes in their own organizations.

Main competence profile:

To achieve the vision, the following three main competence aims need to be achieved:

- 1) The students need to continue developing their technological competence by taking technological courses at master's level which build on their technological background
- 2) The students need to develop a deep understanding of theoretical and practical aspects of projects and project management through a specially adapted core block of technological, economic and managerial courses common to all students in the program.
- 3) The students need to develop their understanding of how their specialized competence in project management can support, and be supported by, knowledge held by other engineers in the same or co-operating organizations, and learn how to develop a reasonable way of interacting with these engineers in a co-operation fruitful for both parties.

Extended learning outcomes

Knowledge acquired:

- Broad knowledge of a core of topics crucial to project management. This will be developed through a core of project management courses of at least 45sp covering technological, managerial and economic aspects of project management
- Deep knowledge within one specialized field of project management. This is primarily developed through specialization projects and the master's thesis, where a combination of empirical observations will be combined with deep theoretical understanding

Core competences developed:

- Competence to understand how specialists in project management can support, and be supported by other specialists, and use this to craft fruitful ways of co-operating with these specialists
- Competence to analyze a difficult challenge within project management, and be able to craft alternative solutions to the challenge, and to implement them in the project organization
- Competence to build bridges between technological and economic/managerial thinking, to ensure that economic and managerial challenges are handled in a technologically oriented project
- Competence to handle environmentally oriented challenges in a project setting, including social and ethical aspects to a project management challenge.

Other competences developed:

- Ability to work in an international setting, and to handle the challenges that arise when specialists from different cultures need to work together
- Ability to find and use literature when analyzing and implementing changes in order to meet challenges
- Ability to gather information and use this information to write reports to superiors and/or the general public regarding challenges met in a project