Master programme Civil Engineering and Management

Construction Management and Engineering

PROFILES

Markets and Organization in Construction

Profile Courses (minimum 30 EC)	Course code	EC	Quartile
Research Methodology & Academic Skills (mandatory)	19582040	7,5	2
at least 3 of the following 4 courses:			
Planning and Process Management	201500097	7,5	1
Legal & Governance Aspects	195800100	7,5	1
Project Management	195800200	7,5	2
Collaborative Design & Engineering	195800400	7,5	3
Profile Electives			
- Free to choose any of the 35 CEM-courses *(pay attention to the required prior knowledge)*			
- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)			
- Below: courses from other programmes that fit in this profile			
(If you include courses from other programmes, we ***recommend*** *you to make a selection, such that the majority of the programme is still formed by CEM-courses)*			
Supply Chain Management & ICT	195810200	7,5	1
Markets, Organizations & Innovation	195810100	7,5	2
Procurement Strat&Tend (pr.knowl: Project Man.)	201000095	7,5	3
Industrialization & Innovation in Construction	195810310	7,5	4
Infrastructure Management	195820500	7,5	4
Maintenance Engineering and Management (ME, IEM)	201200146	5	1
Organization & Strategy (IEM)	191864610	5	2
Cost Management and Engineering (IEM)	194110140	5	2
Supply Chain & Transportation Management (IEM)	191820190	5	3
Reliability Engineering & Maintenance Mgmnt (IEM)	191852630	5	3

Design Management in Construction

Profile Courses (minimum 30 EC)	Course code	EC	Quartile
Research Methodology & Academic Skills (mandatory)	19582040	7,5	2
at least 3 of the following 4 courses:			
Planning and Process Management	201500097	7,5	1
Legal & Governance Aspects	195800100	7,5	1
Project Management	195800200	7,5	2
Collaborative Design & Engineering	195800400	7,5	3
Profile Electives			
- Free to choose any of the 35 CEM-courses *(pay attention to the required prior knowledge)*			
- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)			
- Below: courses from other programmes that fit in this profile			
(If you include courses from other programmes, we ***recommend*** *you to make a selection, such that the majority of the programme is still formed by CEM-courses)*			
Sustainable Building	195810400	7,5	1
Building Information Modeling & 5D Planning	195820600	7,5	3
Project Control and Risk Management	195810600	7,5	3
Industrialization & Innovation in Construction	195810310	7,5	4
Infrastructure Management	195820500	7,5	4
Governing Product development (IDE)	192850730	5	1
Maintenance Engineering and Management (ME, IEM)	201200146	5	1
Product Life Cycle (IDE)	192850740	5	2
Scenario based product design (IDE)	192850810	5	2
Cost Management and Engineering (IEM)	194110140	5	2
Product Life Cycle Management (IDE)	192850750	5	3
Reliability Engineering & Maintenance Mgmnt (IEM)	191852630	5	3
Design for Maintenance Operations (IDE)	201500235	5	3
Advanced 3D Modelling (IDE)	201500518	5	3
Virtual Reality (IDE)	201000201	5	4
LEAN Six-Sigma Green Belt (ME)	191127520	5	4

GENERAL COURSES

Free Electives (max 15 EC)	EC	Quartile
Any course from UT or approved other university*		
Thesis **	*EC*	*Quartile*
Preparation Master Thesis CEM	7,5	-
Master Thesis Construction	30	-

Free Electives (max 15 EC)	EC	Quartile
Any course from UT or approved other university*		
Thesis **	*EC*	*Quartile*
Preparation Master Thesis CEM	7,5	-
Master Thesis Construction	30	-

PLANNING AND CONSULTATION FOR THE MASTER PROFILES

Track-coordinator: drs. ing. Hans Boes

Coordinator Master Theses: dr. ir. Robin de Graaf

* an "approved university" is any university in The Netherlands (not HBO-schools),
or any international university that is partner of the UT or of the faculty of Engineering Technology.
For a list of partner universities, see: https://www.utwente.nl/ctw/student-mobility/partners/
For courses from other universities: contact your track-cooridnator.
The Free Electives should be at MSc-level and should have no overlap with other courses in your programme.

** For the procedure of how to start the course Preparation Master Thesis and your MSc-thesis project, see:
https://www.utwente.nl/cem/master_programme/graduate/