

Construction Management and Engineering 2024-2025

PROFILES

Markets & Organization of Construction			Digital Technologies in Construction		
Profile Courses (≥25 EC)	EC	Quartile	Profile Courses (≥25 EC)	EC	Quartile
Civil Engineering Challenges*	5	1	Civil Engineering Challenges*	5	1
Legal & Governance Aspects	5	1	Legal & Governance Aspects	5	1
Planning & Process Management	5	1	Planning & Process Management	5	1
Sustainable Transportation Infrastructure	5	1	Construction Process Management	5	2
Transitions in Civil Engineering*	5	2	Circular Systems Engineering	5	3
Construction Process Management	5	2	Digital Technologies in Construction	5	3
Circular Systems Engineering	5	3	Technology and Innovation in Road Construction	5	4
Infrastructure Asset Management	5	4			
Profile Electives (~40 EC)			Profile Electives (~40 EC)		
<i>- Free to choose any of the CEM-courses (pay attention to the required prior knowledge)</i>			<i>- Free to choose any of the CEM-courses (pay attention to the required prior knowledge)</i>		
<i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i>			<i>- Below: list of CEM-courses that fit best in this profile (in addition to profile courses)</i>		
Suggested Profile Electives	EC	Quartile	Suggested Profile Electives	EC	Quartile
Construction Supply Chains and Digitization	5	1	Sustainable Transportation Infrastructure	5	1
Urban Resilience in a Changing Climate	5	3	Construction Supply Chains and Digitization	5	1
Value Management	5	3	Structural Health Monitoring for Smart Infrastructure	5	1
Culture in International Construction	5	4	Transitions in Civil Engineering*	5	2
Procurement Strategies and Tendering	5	4	BIM and 5D Planning	5	2
			Simulation and Optimization of Construction Processes	5	3
			Value Management	5	3
			Subsurface Infrastructure Engineering	5	4
			Infrastructure Asset Management	5	4

GENERAL COURSES

Free Electives (max 15 EC)	EC	Quartile	Free Electives (max 15 EC)	EC	Quartile
Any course from UT or approved other university**			Any course from UT or approved other university**		
<i>On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.</i>			<i>On the CEM/CME Canvas page there is a list of courses from other MSc programmes available that fit this track. In some occasions, you can include courses from other programmes as a profile elective. In that case you need approval of your track-coordinator.</i>		
Other usefull courses (0 EC)	EC	Quartile	Other usefull courses (0 EC)	EC	Quartile
Boost your Competences	0	1,2,3,4	Boost your Competences	0	1,2,3,4
Thesis ***	EC	Quartile	Thesis ***	EC	Quartile
Academic Research Skills in CEM/CME	5	2,4	Academic Research Skills in CEM/CME	5	2,4
Preparation Master Thesis	5	-	Preparation Master Thesis	5	-
Master Thesis Construction	30	-	Master Thesis Construction	30	-

PLANNING AND CONSULTATION FOR THE MASTER PROFILES

Track-coordinator: Dr.ir. Ruth Sloot
Coordinator Master Theses: Dr.ir. Robin de Graaf

* Second year MSc course

** 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 ET.

The Free Electives should be at MSc-level and should have no overlap with other courses in your programme. For courses from other universities, contact your track-coordinator.

*** [Click here for the procedure of how to start the course Preparation MSc-thesis and your MSc-thesis project](#)