

Construction Management and Engineering

PROFILES

Markets & Organization of Construction			Digital Technologies in Construction		
Profile Courses (minimum 30 EC)	EC	Quartile	Profile Courses (minimum 30 EC)	EC	Quartile
Research Methodology & Academic Skills (compulsory)	5	2	Research Methodology & Academic Skills (compulsory)	5	2
Legal & Governance Aspects	5	1	Legal & Governance Aspects	5	1
Planning & Process Management	5	1	Planning & Process Management	5	1
Sustainability and Circularity in Civil Engineering	5	1	Construction Industry Dynamics	5	2
Construction Industry Dynamics	5	2	Construction Process Management	5	2
Construction Process Management	5	2	Systems Engineering in Construction	5	3
Systems Engineering in Construction	5	3	Digital Technologies for Civil Engineering	5	3
Infrastructure Asset Management	5	4	Technology and Innovation in Road Construction	5	4
Profile Electives <i>- Free to choose any of the CEM courses offered</i> <i>(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>- On the website: courses from other programmes that fit in this profile</i> <i>(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)</i>			Profile Electives <i>- Free to choose any of the CEM courses offered</i> <i>(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>- On the website: courses from other programmes that fit in this profile</i> <i>(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)</i>		
Construction Supply Chains and Digitization	5	1	Sustainability and Circularity in Civil Engineering	5	1
Safety by Design for Products, Equipment and Systems (IDE)	5	2	Construction Supply Chains and Digitization	5	1
Procurement Strategies and Tendering	5	3	BIM and 5D Planning	5	2
Transition to Circular Building Construction (with reservation)	5	3	Safety by Design for Products, Equipment and Systems (IDE)	5	2
Urban Resilience in a Changing Climate	5	3	Simulation and Optimization of Construction Processes	5	3
Value Management	5	4	Value Management	5	4
Culture in Construction	5	4	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*		
Thesis **	EC	Quartile	Thesis **	EC	Quartile
Preparation Master Thesis	5	-	Preparation Master Thesis	5	-
Master Thesis Construction	30	-	Master Thesis Construction	30	-

PLANNING AND CONSULTATION FOR THE MASTER PROFILES

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Coordinator Master Theses: dr. ir. Robin de Graaf