

Construction Management & Engineering

Specialisation Courses (≥50 EC)	Quartile	ECTS	CEM Elective Courses (≥15 EC)	Quartile	ECTS
Building Information Modelling (BIM)	1	5	Specialisation course or any other course from CEM (pay attention to the required prior knowledge)	1,2,3,4	5
Construction Supply Chains and Digitization	1	5			
Planning & Process Management	1	5			
Structural Health Monitoring for Smart Infrastructure	1	5			
Legal & Governance Aspects	1	5			
Civil Engineering Challenges*	1	5			
Digital Twinning in Infrastructure	2	5	Free Electives (max 15 EC)		
Circular Design & Deconstruction	2	5	Specialisation course or any other course from CEM, UT or approved other university**	1,2,3,4	
Transitions in Civil Engineering*	2	5			
Culture in International Construction	2	5			
Urban Resilience in a Changing Climate	3	5	Other usefull courses (0 EC)		
Value Management	3	5	Boost your Competences	1,2,3,4	0
Construction Project & Programme Management	3	5			
Machine Learning Applications in Civil Engineering	3	5			
Infrastructure Asset Management	4	5	GRADUATION ***		
Sustainable Transportation Infrastructure	4	5	Academic Research Skills in CEM/CME	2,4	5
Subsurface Infrastructure Engineering & Data Management	4	5	Preparation Master Thesis	1,2,3,4	5
Value Driven Procurement & Organising	4	5	Master Thesis Construction	1,2,3,4	30
Specialisation-coordinator: Dr.ir. Ruth Sloot Coordinator Master Thesis: Dr.ir. Robin de Graaf					

* Courses that require more prior knowledge and experience, preferably taken in the second year

** 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 Specialisation-coordinator.

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