

# MSc Construction Management and Engineering - Curriculum 2021-2022

## MSc CME Curriculum 2021-2022: Core, Specialisation & Graduation


Y1:Q1	Y1:Q2	Y1:Q3	Y1:Q4	Y2:Q1	Y2:Q2	Y2:Q3	Y2:Q4
<b>AR8003TU</b> Legal and Governance 5 ects	<b>CME4000</b> Project Management 6 ects	<b>CIE4120</b> Information Systems for the Construction Industry 4 ects	<b>CIE4030</b> Methodology for Scientific Research 3 ects		<b>CME5100</b> CME Master Thesis Preparation * 5 ects	<b>CME5200</b> CME Master Thesis * 30 ects	
<b>CME4200</b> Intercultural Relations 2 ects	<b>CME1201</b> Collaborative Design and Engineering 5 ects	<b>CME4100</b> Process Management 5 ects	<b>CME2201</b> Dynamic Control of Projects 4 ects	<b>CIE5981 (or CME5000-19)</b> Forms of Collaboration in Civil Engineering ** 4 ects	<b>CME4600</b> Leadership and Strategic Management 4 ects		
<b>CME4300</b> Engineering Asset Management 5 ects	<b>CIE4130</b> Probabilistic Design 4 ects	<b>CME5000-19 (or CIE5981)</b> Procurement of Complex Projects ** 4 ects	<b>TPM024a</b> Methods for Risk Analysis and Management 5 ects				
<b>CME2300</b> Financial Engineering 4 ects	<b>CME4130</b> Probabilistic Design Practical 2 ects	<b>CME4100</b> Process Management 5 ects	<b>AR2MBE025</b> Urban and Infrastructure (Re)development Game 10 ects		<b>CME4400</b> Entrepreneurial Engineering 5 ects		
		<b>CIE4481</b> Systems Engineering Management 4 ects	<b>CME4700</b> Construction Management Systems 4 ects	<b>EPA1316 (or CME4500/TPM024a)</b> Introduction to Data Science ** 5 ects			
		<b>EPA1352</b> Advanced Simulation 5 ects	<b>CME4500 (or TPM024a/EPA1316)</b> Engineering Systems Optimisation ** 4 ects	<b>CME4900</b> Open Design Contractor Project *** 10 ects			
			<b>TPM024a (or CME4500/EPA1316)</b> Methods for Risk Analysis and Management ** 5 ects	<b>CME2100-11</b> Research Internship * 10 ects			
	<b>WM0329TU</b> Ethics and Engineering 6 ects	<b>WM0312CIE</b> Philosophy, Technology Assessment and Ethics 4 ects		<b>TUD4040-10EC</b> Joint Interdisciplinary Project * 10 ects	<b>CIE4510-20</b> Climate Change: Science & Ethics 4 ects		
	<b>WM0376TU</b> Ethics of Technological Risk 5 ects	<b>TPM003A</b> Water Ethics 5 ects		<b>CIE4061-09</b> Multidisciplinary Project * 10 ects	<b>WM0201-TU-eng</b> Technical writing * 2 ects		

### Legend

Compulsory Courses
Synchronisation Course - Compulsory if statistics is lacking in BSc
Ethics Courses - Must choose one of these courses
General Electives

### Specialisations

Projects & People
Design & Integration
Engineering & Systems

-  At maximum only 1 out of these courses.
- \* May be scheduled at any time
- \*\* Must choose at least one, but may also choose multiple
- \*\*\* May be done in Q1 or in Q2, or during both Q1 and Q2