

Topic Master Thesis	Supervisor	Required courses	Preferred courses
BIM; 5D planning; digitization; supply chain	Adriaanse, A.	BIM and 5D planning; Construction Supply Chains and Digitization	
Procurement strategies; tendering; governance; client-contractor relationships	Boes, H.	Procurement Strategies and Tendering	Legal & Governance; Construction Process Management
Dike failures; fibre-reinforced soils; deep learning for geomechanics; finite/discrete element analyses	Cheng, H.	Geo Risk Assessment	Soil Mechanics
Construction industry; construction organisations; collaboration; innovation	Dorée, A.	Construction Industry Dynamics OR Construction Process Management	Construction Industry Dynamics OR Construction Process Management
Value Management	De Graaf, R.S.	Value Management	Infrastructure Asset management
Systems Engineering	Van den Berg, M. & De Graaf, R.S.	Circular Systems Engineering; Construction Process Management	Infrastructure Asset management
Infrastructure (asset) management; maintenance planning; maintenance procurement; risk management; structural health monitoring; organizational learning; public-private partnerships	Hartmann, A	Infrastructure Asset Management;	Subsurface Infrastructure Engineering; Procurement Strategies and Tendering; Simulation and Optimization of Construction Processes
Structural health monitoring (SHM) of bridges	Kromanis, R.	Structural Health Monitoring for smart infrastructure	Digital Technologies in Construction
Soil mechanics and applied research, with focus on novel technologies for improvement of construction (earth) materials and processes	Magnanimo, V.	Geo Risk Assessment	Soil Mechanics
Technology and Innovation in Road Construction; sensors; asphalt; simulation; optimization	Miller, S.	Digital Technologies in Construction; Technology and Innovation in Road construction; Simulation and Optimization of Construction Processes	Infrastructure Asset Management
BIM; subsurface projects	Olde-Scholtenhuis, L.	Digital technologies in construction; BIM and 5D planning; Subsurface Infrastructure Engineering	
Sustainability and Circularity; assessment methods; decision Making	Oliveira dos Santos, J.	Sustainable Transportation Infrastructure	Infrastructure Asset Management OR courses involving operation research techniques
Project management; International Projects; Culture in construction;	Tijhuis, W.	Construction Process Management; Culture in International Construction	
BIM-related projects; simulations; optimization	Vahdatikhaki, F.	Digital technologies in construction; BIM and 5 D modeling	Simulation and Optimization of Construction Processes; Subsurface Infrastructure Engineering
Decision making; Financial management	Van Buiten, M.	Planning & process management; Construction process management	Infrastructure Asset Management; Procurement Strategies and Tendering
Climate-resilience and climate adaptation, multi-actor processes, stakeholder participation and policy implementation.	Vinke-de Kruijf, J.	Urban Resilience in a changing climate	Planning & Process Management

Procurement, collaboration, public private partnerships, supply chain innovation, project management, ecosystems	Volker, L.	Construction Process Management	Procurement Strategies and Tendering; Construction Industry Dynamics; Infrastructure Asset Management
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