4.2.6.2 Degree Requirements

To qualify for the MSc (HEWRM) degree, a candidate must successfully complete a programme of study consisting of at least 40 Modular Credits (MCs). At least 30 MCs must be at graduate level within the subject or in related disciplines.

The core requirements in total are worth 28 MCs, of which 20 MCs are in the form of core modules, while the remaining 8 MCs are in the form of an MSc project for which students will work on innovative research in the HEWRM field. The remaining 12 MCs will be obtained from elective modules.

In addition, a student must obtain a minimum Cumulative Point Average (CAP) of 3.00 (equivalent to an average of Grade B-) for the best modules equivalent to 40 MCs (inclusive of core modules, where required). Furthermore, the grade point obtained for each of the 6 core modules must be at least 2.5 (equivalent to Grade C+). If this is not met, a student is allowed to re-take once, up to 2 core modules within the given programme time frame. The better grade will be used to compute the CAP.

Core Modules

*Each module is 4 MCs unless otherwise specified*

- CE5307A* Wave Hydrodynamics and Physical Oceanography (2 MCs)
- CE5307B* Hydrodynamic Loads on Offshore Structures (2 MCs)
- CE5307C* Finite Amplitude Wave Theories & Their Applications (2 MCs)
- CE5308 Coastal Processes and Sediment Transport
- CE5310 Hydroinformatics
- CE5377 Numerical Methods in Mechanics & Envr. Flows
- CE5312 River Mechanics
- CE5314 HEWRM Project
* Students are to select either a combination of CE5307A & CE5307B, or a combination of CE5307A & CE5307C.

If a student is keen to take all 3 modules of this series, one of them will be considered as an elective.

Elective Modules

- CE5313 Groundwater Hydrology
- CE5603 Engineering Economics and Project Evaluation
- CE5883A Topics in Hydraulic & Water Resources - Environmental Hydraulics
- OT5203 Design of Floating Structures
- OT5204 Offshore Moorings and Risers
- ESE5601 Environmental Risk Assessment
- ESE5602 Environmental Management Systems
- ESE5405 Water Treatment Processes
ESE5901 Environmental Technology
IE5203 Decision Analysis
PP5257 Water Policy and Governance
PP5294 Dynamic Modelling of Public Policy Systems