

MSc and Postgraduate Diploma FRESHWATER QUALITY MONITORING AND ASSESSMENT



Through its global scoping exercise and bilateral discussions with the water and education sectors in developing countries the Capacity Development Centre identified a need for a flexible, advanced course for individuals involved in water quality management. In addition, the new UN Agenda 2030 Sustainable Development Goal for water (SDG 6) is leading to an increased demand for knowledge, understanding and capacity in water quality monitoring and assessment worldwide. These Postgraduate programmes in Freshwater Quality Monitoring and Assessment address these needs by enabling the development of expertise in countries through online learning.

Over the first two years the Postgraduate Diploma focuses on all aspects of water quality monitoring including: monitoring programme design, quality assurance, data analysis and presentation, monitoring and assessment of rivers, lakes and groundwater, and water quality monitoring with biological and ecological methods and with particulate material. There is also an opportunity to take part in a field workshop during the second year of the programme. In the third year students undertake a research project on a water quality topic in order to qualify for the MSc in Freshwater Quality Monitoring and Assessment.

The programme aims to recruit highly-motivated, enthusiastic students who may be (i) currently involved in water quality monitoring, (ii) part of the UNEP GEMS/Water network, and/or (iii) seeking to specialise in water quality monitoring and assessment, and who wish to study on a flexible, part-time basis.

Modules

The MSc and Postgraduate Diploma in Freshwater Quality Monitoring and Assessment are part-time programmes taken over 36 or 24 months respectively, starting in September every second year.

To be awarded the Diploma students must complete and pass 30 credits from Year 1 and 30 credits from Year 2. To be awarded the MSc students must also complete and pass the dissertation.

Students can exit the course after completion of EV6001, EV6002 and EV6003 with a Postgraduate Certificate in Water Quality Monitoring and Assessment or after Year 2 with the Diploma provided they have completed 60 credits. Teaching is entirely online, with the exception of module EV6004, which is an optional field-based module, and EV6010 which is the research dissertation.

Details for non-EU students applications are available at: <https://www.ucc.ie/en/international/studyatucc/postgraduateprogrammes/taughtprogrammes/>

Year 1

- EV6001 Monitoring programme design for freshwater bodies (10 credits)
- EV6002 Quality assurance in freshwater quality monitoring programmes (10 credits)
- EV6003 Data handling and presentation for freshwater quality monitoring programmes (10 credits)

Year 2

- EV6005 Monitoring and assessment of surface waters (10 credits)
- EV6007 Monitoring and assessment of groundwater (10 credits)

and any two from the following:

- EV6004 Freshwater quality monitoring in the field (5 credits)
- EV6008 Freshwater quality monitoring using biological and ecological methods (5 credits)
- EV6009 Freshwater quality monitoring with particulate material (5 credits)

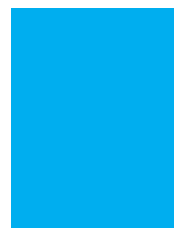
Year 3

- EV6010 Dissertation in Freshwater Quality Monitoring and Assessment

Application deadline: 18th June, 2021
Courses commence: September 2021



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Career Prospects

The MSc and Postgraduate Diploma are designed to give students a strong foundation in all aspects of water quality monitoring and assessment, equipping them to work in the area of water quality management in public or private sectors, including water and environment ministries, regulatory agencies, agriculture and industry. The programme will be of particular benefit for the career advancement of employees already working in the water quality monitoring sector.

Eligibility and Entry

Applicants must possess a primary degree in a relevant science subject, such as a BSc in Environmental Science or cognate discipline; or a relevant professional qualification. Candidates who do not hold a BSc will be judged for entry into the Postgraduate Diploma on a case-by-case basis for their suitability for the programme, subject to the approval of the College of Science, Engineering and Food Science, UCC. For candidates applying directly to the MSc a relevant BSc is required with a minimum grade of a 2H2 (a grade comparison is available on our website).

Candidates, whose primary or official language is not English, should possess an IELTS of 6.5 (or TOEFL equivalent) with no less than 6.0 in each individual category. Please see here: <https://www.ucc.ie/en/study/comparison/english/> for detailed Postgraduate English Language Requirements.

Students apply online at: <http://www.pac.ie/ucc>, selecting the PAC application Code for the MSc (CKR17) or Postgraduate Diploma (CKR55) in Water Quality Monitoring and Assessment.

Fees

Nominated candidates from UNEP GEMS/Water participating countries are eligible for special reduced fees. Fees for all EU and Non-EU applicants can be found at:

www.ucc.ie/en/financeoffice/fees/schedules/



University College Cork and the School of Biological, Earth and Environmental Sciences

University College Cork is one of Ireland's oldest higher education institutions and internationally acclaimed as one of Ireland's leading research institutions. The School of Biological, Earth and Environmental Sciences (BEES) is a recognised leader in teaching and research in Zoology, Ecology, Plant Science, Geology and Environmental Science.

UNEP GEMS/Water Capacity Development Centre

The UNEP GEMS/Water Capacity Development Centre (CDC) was founded in 2015 to provide global capacity development in water quality monitoring and assessment to the UN Environment's global water quality monitoring system, GEMS/Water, through the provision of education, training and expert advice. The Centre is based in the Environmental Research Institute, UCC.

For further information contact

UNEP GEMS/Water Capacity Development Centre

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<https://www.ucc.ie/en/gemsdc/>

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