

Master of Science Degree / Postgraduate Diploma in Water Resources Engineering and Management

An Excellent Full-time / Part-time course leading to M.Sc. Degree / Postgraduate Diploma

Applications are invited for the above course offered by the Department of Civil Engineering, University of Moratuwa, and conducted at the UNESCO Madanjeet Singh Centre for South Asia Water Management (UMCSAWM), in collaboration with the South Asia Foundation (SAF). The course scheduled to be commenced in March 2022 is open for both local and international students who wish to pursue a postgraduate degree/diploma with exposure to the knowledge and skills needed to create innovative, integrated solutions to complex water related challenges in the areas of water resources engineering and management. The course is carefully designed to provide a specialist training with a firm grounding in the principles, techniques, issues and practice of water resources engineering and management to practicing engineers and scientists.



ELIGIBILITY REQUIREMENTS

The Degree of Bachelor of Science of Engineering of the University of Moratuwa, Sri Lanka or an equivalent degree in a relevant field, as approved by the Senate, OR

At least the Associate Membership of a recognized professional Engineering Institute in a relevant field with a minimum of one (1) year period of appropriate experience, as approved by the Senate,

AND

If English is not the medium of instruction in the first degree of the candidate, valid TOEFL (a minimum of 500 points in paper-based, 173 in computer-based, or 61 in internet-based test) or IELTS (a minimum of 5.0 in Academic Version) scores or equivalent.

COURSE STRUCTURE

Compulsory modules (28 Credits)

- Advanced Engineering Hydrology and Watershed Management
- Advanced Irrigation Water Management for Food and Water Security
- Advanced River Engineering and Estuary Hydraulics
- Integrated Water Resources Management
- Remote Sensing and Geographic Information Systems (GIS) for Planning and Management
- Research Methods for Water Resources Engineering Planning and Management
- Water Resources Project Planning & Management
- Water Supply, Sanitation Systems and Water Quality Management

Elective modules (12 Credits)

- Advanced Coastal Engineering and Estuary Management
- Advanced GIS for Water Resources Management
- Advanced Remote Sensing and Global Positioning Systems
- Advanced Water Supply and Sanitation Systems for Engineering Applications
- Climate Change Impacts and Adaptation Options for Water Management
- Disaster Risk Assessment, Reduction and Mitigation
- Environmental Assessment of Water and Related Infrastructure Development
- Service Delivery Assessment Concepts for Water Supply and Irrigation Systems
- Water Resources Systems and Watershed Management for Planning and Management

Research Project (20 Credits)

Supervised Research Project (for Master of Science Degree)

COURSE DURATION

Duration of Program: M.Sc. Course: Minimum 21 months or normal 24 months and PG Diploma: 12 months (Part-time)

FINANCIAL ASSISTANCE

South Asia Foundation (SAF) annually offers sixteen (16) full-paid scholarships to the full-time participants from SAARC countries attending the M.Sc. programme of the UNESCO Madanjeet Singh Centre for South Asia Water Management (UMCSAWM).

APPLICATION PROCEDURE AND CLOSING DATE FOR APPLICATIONS

Closing date for applications is 31st August 2021. Completed application documents with all scanned support documents should be emailed to: umcsawm@uom.lk. For further information and to download application forms and the brochure, please visit the UMCSAWM webpage or contact: Course Coordinator, M.Sc. Degree / P.G. Diploma in Water Resources Engineering and Management, Department of Civil Engineering, University of Moratuwa, Moratuwa 10400.

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