



**UNIVERSITY OF MORATUWA  
DEPARTMENT OF CIVIL ENGINEERING**

**POSTGRADUATE COURSES**

**Master of Science Degree/ Postgraduate Diploma in**

**A). Water Resources Engineering and Management (2014/2015)**

**B). Water Resources Management (2014/2015)**

**Fulltime/Part-time courses leading to M.Sc. Degree / P.G. Diploma**

Applications are invited for the above courses conducted by the UNESCO Madanjeet Centre for South Asia Water Management (UMCSAWM) established attached to the Department of Civil Engineering, University of Moratuwa. The courses scheduled to commence in August 2014 are for both local and international students who wish to obtain a postgraduate degree/diploma in A). Water Resources Engineering and Management or B). Water Resources Management. The aim of the course is to provide a specialist training with a firm grounding in the principles, techniques, issues and practice of water resources engineering and Management/ water resources management to practicing engineers and scientists.

**ELIGIBILITY REQUIREMENTS**

**For A). M. Sc. / PG Diploma in Water Resources Engineering and Management**

- i). The Degree of Bachelor of Science of Engineering of the University of Moratuwa, Sri Lanka or an equivalent degree in a relevant field with a minimum of one (01) year period of appropriate experience, as approved by the Senate  
OR
- ii). At least the Associate Membership of a recognized professional Engineering Institute in a relevant field with a minimum of one (01) year period of appropriate experience, as approved by the Senate.

**For B). M. Sc. / PG Diploma in Water Resources Management**

- i). The Degree of Bachelor of Science of Engineering of the University of Moratuwa, Sri Lanka or an equivalent degree in a relevant field with a minimum of one (01) year period of appropriate experience, as approved by the Senate  
OR
- ii). A Bachelor of Science Degree from a recognized university with a minimum of one (01) year period of appropriate experience, as approved by the Senate  
OR
- iii). At least the Associate Membership of a recognized professional Engineering Institute in a relevant field with a minimum of one (01) year period of appropriate experience, as approved by the Senate  
OR
- iv). At least the Graduate Membership of a recognized professional Science Institute deemed equivalent to a Bachelor of Science Degree in a relevant field with a minimum of one (01) year period of appropriate experience, as approved by the Senate.

**For A). and B). above**

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.

Selections will be based on the minimum eligibility requirements above, qualifications and experience, and performance at the interview.

**COURSE STRUCTURE**

**• Compulsory modules for both streams A & B**

- Integrated Water Resources Management
- Water Resources Project Planning & Management
- Water Supply and Sanitation Systems and Water Quality Management
- Research Methods for Water Resources Engineering Planning and Management
- Remote Sensing and Geographic Information Systems (GIS) for Planning and Management

**• Compulsory modules for Stream A**

- Advanced River and Hydraulics Engineering River and Estuary Hydraulics
- Advanced Irrigation Water Management for Food and Water Security

**• Compulsory modules for Stream B**

- Concepts of Irrigation and Irrigation Water Management
- Coastal and Estuary Ecosystem Management
- Water Resources Systems and Watershed Management for Planning and Management
- Fundamentals for Planning and Management of Water Conveyance and Drainage Systems

**• Elective modules for both streams A & B**

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

**• Elective modules for Stream A**

- Advanced Coastal Engineering and Estuary Management
- Advanced Water Supply and Sanitation Systems for Engineering Applications
- Water Resources Systems and Watershed Management for Planning and Management

**• Elective modules for Stream B**

- Advanced Irrigation Water Management for Food and Water Security

**COURSE DURATION**

- M.Sc. Courses: 12 months (Full-time) or 21 months (Part-time) and PG Diploma: 12 months (Part-time).
- All academic work and research projects will normally be conducted in a three term academic year from Tuesday to Saturday (Full-time course) or in an equivalent duration from Friday to Saturday (Part-time course). After the successful completion of the first year with specified examinations and assignments, candidates may opt to obtain the P.G. Diploma. Those who wish to obtain an M.Sc. Degree should complete a Research Project and submit a thesis based on the research study during the first year (Full-time) or second year (Part-time).

**COURSE FEES**

- M. Sc. Full time/ Part-time: Rs. 350,000/=; PG Diploma: Rs. 250,000/= For overseas applicants
- M. Sc. Full time USD 5,000 (SAARC) USD 6,000 (Other countries)

**OTHER FEES**

- Registration Fee: Rs. 1,000/= per year
- Examination Fee : Rs. 1,000/=
- Refundable Library Deposit: Rs. 5000/= (up to two books)

**FINANCIAL ASSISTANCE**

South Asia Foundation (SAF) annually offers eight (08) full-paid scholarships to full-time participants from SAARC countries attending the M. Sc. programmes of the UMCSAWM, with the objective of promoting regional cooperation through South Asian water management education. Applications for the scholarships should be made directly to the SAF/India. For further information and scholarship application forms, please refer to the SAF website or contact SAF chapters in respective SAARC countries.

**APPLICATION PROCEDURE AND CLOSING DATE FOR APPLICATIONS**

- For further information and to download application forms and the brochure, please visit the Department webpage, or contact:
- Course Coordinator, M.Sc. Degree/P.G. Diploma in Water Resources Engineering and Management/Water Resources Management, Department of Civil Engineering, University of Moratuwa, Moratuwa. Duly completed applications should be forwarded to the same address.
  - International students should send an e-mail to the Course Coordinator or refer to the Department webpage to obtain application details.

Tel.: (+9411) 2650567 (Ext-2116) Website: www.civil.mrt.ac.lk E-mail: lalith@uom.lk

**Closing date for applications: 23rd May 2014**

Registrar, University of Moratuwa, Moratuwa.