

SCHOOL OF ENGINEERING

DEPARTMENT  
OF

CIVIL, ENVIRONMENTAL AND GEOMATICS ENGINEERING (CEGE)

**CALL FOR APPLICATIONS TO WATER RESOURCES AND  
ENVIRONMENT MANAGEMENT MSc Program**

<b>Programme Code</b>	<b>: WRM</b>
<b>Duration</b>	<b>: Two (2) Years</b>
<b>Mode of Study</b>	<b>: Full Time/ Part Time</b>
<b>Study Form</b>	<b>: On-campus taught modules</b>
<b>Study Location</b>	<b>: Nyarugenge Campus</b>
<b>Exit Award</b>	<b>: MSc in Water Resources and Environmental Management (WREM)</b>
<b>Offered by</b>	<b>: University of Rwanda</b>
<b>College</b>	<b>: College of Science and Technology (CST)</b>
<b>School</b>	<b>: Engineering</b>
<b>Department</b>	<b>: Civil, Environmental and Geomatics Engineering</b>

**Program Description:**

The MSc programme in Water Resources and Environmental Management (WREM) is designed to provide water managers with state-of-the-art knowledge required for the effective management of water resources, covering both quality and quantity issues. It is based on the water cycle in its broadest sense. Following a holistic approach, the most important physical and non-physical aspects, including environmental issues, social aspects, planning, management and institutional analysis are incorporated. The programme is taught by highly qualified and experienced academic staff from the UR and it provides up-to-date knowledge and addresses a wide range of institutional, socio-economic, managerial and technical problems in the rapidly expanding fields of water resources and environmental management. The WREM programme ensures competency in integrated approaches to water resources and environmental management, encompassing socio-economic and regulatory considerations. The graduates will have an in-depth knowledge of key issues and adequate skills as problem-solving actors within multi-disciplinary teams. They are able to communicate effectively with specialists from other disciplines, and become responsible decision-makers.

**Duration**

The programme is delivered on a full-time basis of 4 semesters (24 months divided in 2 academic years) of study including taught part followed by individual research project. The

taught part comprises eight modules each of 15 credits including a group work project. The modules are spread over one year, consisting of two semesters four modules per semester. The teaching comprises of formal lectures, exercises, tutorials, workshops, laboratory works, and field trips. The research project is carried out in the second year and comprises of an introductory taught module, development of a research proposal and the actual research implementation and concludes with presenting and defending the thesis. A total of one hundred and eighty (180) credits are required to complete the programme. Candidates must pass all modules and the group work project and have to defend their thesis successfully to qualify for the award of the Master of Science Degree in Water Resources and Environmental Management (WREM).

### Programme Structure

MODULE CODE	MODULE NAME	No. of Credits	CAMPUS	OFFERING TYPE
WRM 6161	Principles of Water Resources and Environmental Management	15	Nyarugenge	Day/Evening/Weekend
WRM 6162	Water Resources System and Engineering	15	Nyarugenge	Day/Evening/Weekend
WRM 6163	Water Quality and Environmental Management	15	Nyarugenge	Day/Evening/Weekend
WRM 6164	GIS, Remote Sensing and Water Resources Modelling	15	Nyarugenge	Day/Evening/Weekend
WRM 6261	Wastewater Treatment and Disposal	15	Nyarugenge	Day/Evening/Weekend
WRM 6262	Water Supply and Treatment	15	Nyarugenge	Day/Evening/Weekend
WRM 6263	Irrigation Drainage and Structures (Elective)	15	Nyarugenge	Day/Evening/Weekend
WRM 6264	Wetlands Management (Elective)	15	Nyarugenge	Day/Evening/Weekend
WRM 6265	Groupwork Project	15	Nyarugenge	Day/Evening/Weekend
WRM 6361	Research Thesis	60	Nyarugenge	Day/Evening/Weekend

### Entry requirements

To qualify for entry applicants should satisfy the general University Regulations governing admission to postgraduate degree and should normally have Bachelor's degree with at least a Second-Class Honors Upper division or equivalent in any of the following fields: Civil Engineering, Water and Environmental Engineering, Irrigation and Drainage Engineering, Water resources Engineering, Agriculture Engineering, Soil and Water Management, Natural

Resources Management, Chemistry, Biology or related fields. As the course will be offered in English, proficiency in the English language is a requirement. Professional experience in relevant fields is an added advantage.

**Application deadline** : 21<sup>st</sup> October, 2017

**Starting date** : 20<sup>th</sup> November, 2017

### **Programme Cost**

#### **Payable in full or at the completion of each semester:**

- Tuition fee for national and EAC students : Frw 3,000,000
- Tuition fee for international students : Frw 3,600,000

### **Annual University Registration Fees**

University registration Fees are not included in the cost of the tuition fee and they are paid during the registration period at the beginning of each academic year:

<b>Fees</b>	<b>New Students (in Frw)</b>	<b>Continuing Students (in Frw)</b>
Registration Fees	75,000	50,000
Student Medical Insurance	7,000	7,000
Student Life Insurance	2,000	2,000
Student Union Contribution	1,000	1,000
Total Administration fees	95,000	60,000

### **Application Procedure**

Interested candidates should submit a hard copy of their applications to the Office of the Directorate of Research and Postgraduate studies at Headquarter of the College of Science and Technology, Nyarugenge Campus.

- An application fee of Rwf.10, 000 (non-refundable) is required.
- Detailed admission procedures shall be communicated to successful candidates after initial screening of documents.
- Only eligible candidates will be called for written test and subsequent interview.
- Upon selection candidates will have to submit a commitment letter written by themselves (if self-funded) an/or from their employer to fulfill the requirements of the programmes of study.

### **Required Documents:**

- Fill in the application form, downloadable from the University's website)
- Application letter addressed to the Principal of College of Science and Technology
- Motivation letter (1 page)

- Curriculum vitae
- Copy of National Identity card/passport
- Two passport photos
- Certified copies of Bachelor's Degree and Certified copies of Academic Transcripts
- Recommendation letters from two referees within the academic field

**University Accounts:**

All fees and payments are payable to College of Science and Technology account no: **00094-0651935-36 opened at Bank of Kigali**. You must use your UR student number as it appears on the acceptance letter.

**Program Contacts:**

For more information on the programme, please contact:

**1.The Coordinator of WREM Programme,**

**Prof. Umaru Garba Wali**

Department.of CEGE,

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**2.Director of Research, Innovation and Postgraduate Studies**

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