



▶ PROGRAMME DESCRIPTION

Water is the world's most precious natural resource. The Water Resources Management program prepares students to face the complexities of managing this critical natural resource and their use in the urban, industrial, and agricultural environment. Water is the world's most precious natural resource. This program provides advanced knowledge and skills in making sound, independent judgments about the best way to manage water resource and an understanding of the latest developments in the field. The Master of Water Resource Managements is designed to make the students ready for jobs in fields of water resource along with specialization in management, administration, resource study, and agricultural environment. The course will also provide additional opportunities to enhance their credentials in the service. The outcomes of the proposed program, as envisaged, would certainly contribute significantly towards a societal outlook and responsibility to improved quality of resources and the environment. After completion of this course, the students can opt for research work that will provide them with in-depth knowledge and skills to advance their career in research or they can even pursue further Ph.D. programmes in the related fields.

▶ PROGRAMME AIM

The programme of Master of Water Resource Managements is intended for those, who desire to pursue a career in the natural resources conservation and Management. Students would learn in detail about the varied aspects of Water Resource Managements. Knowledge acquired through this programme, would help the students to implement effectual methods conservation, management of the environment. The aims of this programme are:

- To provide the knowledge to describe and predict for a given water resources system the main hydrological, hydraulic, chemical and biological processes and how these processes are dynamically linked with aquatic ecosystems as well as with human activities such as land and water use and pollution;
- To train the students to describe and explain the main concepts and instruments for analyzing & influencing formal and informal arrangements for water quality management, including policies, laws and institutions, and by adopting a historical perspective;
- To provide concepts to explain the key concepts for integrated, multidisciplinary & interdisciplinary analyses of aquatic ecosystems and describe the challenges of such approaches;
- To design, apply and evaluate models for institutional arrangements with emphasis on institutional reforms, policy development and good governance;
- To describe the concepts to determine the value of water for various uses and users in (amongst others) economic and ecological terms and explain how these concepts can be used in water resources planning at various spatial and temporal scales.



▶ **ENTRY REQUIREMENTS**

- a) Bachelor's Degree with a minimum CGPA of 2.50 or equivalent as acceptable by the Senate of the Lincoln University College; or
- b) Bachelor's Degree or equivalent CGPA less than 2.50, cannot achieve acceptable subject to a minimum of 5 years working experience in the related field.

▶ **LIST OF COURSE/MODULE OFFERED IN THE PROGRAMME**

CODE	COURSE NAME	CREDIT
WRM1114	Water, Sustainability and Development	4
WRM1124	Principles of Irrigation	4
WRM1134	Groundwater Hydrology and Management	4
WRM1214	Waste Water Treatment	4
WRM1224	Aquatic Ecosystem	4
WRM1234	Water Quality and Treatment	4
WRM1314	Water Governance and Policy	4
MGT507	Research Methodology	4
Elective (Please choose one from the following two sub fields)		
Sub sector I: Environmental management		
WRM1334	Environmental Economics	4
WRM1344	Remote Sensing of the Environment	4
WRM1354	Environmental Management of Mine Sites and Contaminated Lands	4
WRM1364	Environmental Law and Management	4
Sub sector II: River Management		
WRM1374	River Hydrology and Geomorphology	4
WRM1384	River Restoration and Protection	4
WRM1394	Coastal Flood Defense	4
WRM2414	GIS Applications in Environment	4
WRM2428	Project Report	8



▶ **INTAKE** 1. January. 2. May. 3. September.

▶ **PROGRAMME DURATION**

Minimum Duration: 18 Months.
Maximum Duration: 30 Months

