BACHELOR OF ENVIRONMENTAL SCIENCE (BEVS)

Introduction

The programme is designed to train students to re-orientate their conception of environmental problems in order to appreciate the key role of science, economics, ethics, politics, human ecology and sociology in environmental conservation. In so doing, a new cadre of environmental professionals will emerge ready to tackle the challenges of increasing natural resources degradation and material poverty and increasing human population. The underlying philosophy is that human beings, having evolved the capacity to manipulate and transform the rest of nature, need to be central in finding solutions to problems of misuse and degradation of our environment.

General Objective

The overall objective of this programme is to produce environmental scientists with adequate knowledge, skills, concern and attitude in meeting the challenges of environmental conservation and management.

The Specific Objectives are;

(i) To enable students to acquire scientific knowledge of the structure and functioning of environmental systems
(ii) To promote the use of scientific knowledge in environmental problem solving
(iii) To make students acquire skills in environmental research
(iv) To promote the use of appropriate technology in harvesting natural resources
(v) To enable students acquire skills to effectively disseminate environmental knowledge
(vi) To promote the use of inter-disciplinary approach in environmental conservation and management
(vii) To enable students develop the conservation ethic

Curriculum

A student will be deemed to have finished the programme after accumulating a minimum of 108 credit units. A credit unit is defined as one contact hour per week per semester. One hour of lecture or seminar is one contact hour. Two hours of tutorial, practical or fieldwork are equivalent to one contact hour.

Programme Structure

The programme is arranged into Core and Elective Courses, Field Attachment and Research. All courses in semesters one and two of Year I and semester one of Year 2 are core and must therefore be taken by all students. The rest of the semesters have core courses and electives. The electives start from semester two of year two and are designed to allow students acquire wide knowledge in environmental management.

Year I: **Semester I (Core Courses)**		**CU**
ENR 1101	Earth Structure and Geo-processes	3
ENR 1102	Atmospheric Processes	3
ENR 1103	Soil Science	4
ENR 1104	Lower Plant Resources	4
ENR 1105	Human Ecology	3
Semester II Core Courses		
ENR 1201	Invertebrate Resources	4
ENR 1202	Higher Plant Resources	4
ENR 1203	Environmental Microbiology	3
ENR 1204	Chemical Processes in the Environment	3
ENR 1205	Basic Ecology	4
Year II Semester I (Core Courses)		
ENR 2101	Basic Genetics	3
ENR 2102	Computer Applications	4
ENR 2103	Vertebrate Resources	4
ENR 2104	Biodiversity	4
ENR 2105	Elements of Mathematics Ecology	4
Semester II ***(Three Core Courses and Two Electives)***		
	Core Courses	
ENR 2201	Research Methods and Statistics	4
ENR 2202	Resource Economics	4

ENR 2203	Remote Sensing and GIS	4
Electives		
ENR 2204	Waste Management	3
ENR 2205	Environmental Health	3
ENR 2206	Urbanisation and Environment	3
ENR 2207	Sociology and Environment	3
ENR 2208	Ecological Modelling	3
Year III Semester 1 ***(Four Core Courses and Two Electives)***		
	Core Courses	
ENR 3101	Environmental Biotechnology	3
ENR 3102	Cleaner Production	3
ENR 3103	EIA and Environmental Standards	4
ENR 3104	Communicating the Environment	3
Electives		
ENR 3105	Conservation Genetics	3
ENR 3106	Trade and Environment	3
ENR 3107	Agriculture and Environment	3
ENR 3108	Land Use Planning	3
ENR 3109	Energy Resources	3

Semester II ***(Three Core Courses and two electives)***		
	Core Courses	
ENR 3201	Pollution Analysis	4
ENR 3202	Environmental Disaster Assessment	3
ENR 3203	Environmental Policy and Legislation	3
Electives		
ENR 3204	Wetlands Ecology and Management	3
ENR 3205	Integrated Water Resources Management	3
ENR 3206	Fisheries Resource Management	3
ENR 3207	Conflict Resolution in Natural Resources Management	3
ENR 3208	Advanced Atmospheric Physics	3
ENR 3209	Environmental Forestry	3
Recess Term ***(One Core Course)***		
ENR 3301	Field Attachment and Research	5

POSTGRADUATE PROGRAMMES

POSTGRADUATE DIPLOMA IN ENVIRONMENTAL INFORMATION MANAGEMENT

Programme Structure

Curriculum

(i) Students will be required to have both theoretical and practical experiences in most of the courses.

(ii) During the second half of the first semester, each student will be expected to formulate an individual project under the supervision of a member of staff. This project will be carried out and finished during the second semester and the results presented.

Courses Offered

The programme consists of 7 courses, one of which is an individual project. Course participants are expected to take **ALL** courses as outlined below.

SEMESTER I	**Core Course**	**CU**
EIM 6101	Computing and Statistics	3
EIM 6102	Design and Management of Information System	3
EIM 6103	Introduction to Geographical Information System (GIS)	3
EIM 6104	Introduction to Remote Sensing	3
SEMESTER II	**Core Course**	
EIM 6201	Remote Sensing for Environmental Management	5
EIM 6202	Geographical Information Systems for Environmental Management	5
EIM 6203	Project	8