



## **Technical University of Mozambique (UDM) – Maputo, Mozambique**

### ***BSC HONOURS IN ENVIRONMENTAL ENGINEERING AND DISASTER MANAGEMENT (LEBA/GD)***

#### **Course Objectives**

The BSc Honours in Environmental Engineering and Disaster Management (LEBA/GD) aims to train technicians that will be able to combine productive technologies with environmental protection and sustainable management of natural resources. After a common core the studies are aimed to the development of environment management systems, disaster risk management, environmental pollution prevention technologies, usage of geographical information systems to optimise land use, urban planning, water management, environmental impact assessment, coastal protection and solid waste management.

#### **Professional Exits**

The training allows the graduate to work in sectors as diverse as:

- Companies or institutions in the fields of environmental organization and supervision, or advanced technical-scientific consulting in the environmental area, either in the private sector (industry and service companies), or in the public sector at central, regional or local administration.
- To participate in teams of environmental certifications and audits
- To work as environmental advisor for companies and local authorities
- To be a consultant, environmental educator
- To be a nature conservation manager, water quality manager, air quality manager, toxic waste manager, fisheries and wildlife manager, game parks manager,
- To be an industrial and environmental manager
- To be a high-level technician of environmental planning, director of environmental programs,

- To deal with air, water and soil pollution issues, identifying and characterizing the polluting sources, modelling the phenomena and applying the required technologies to achieve practical solutions;
- To deal with problems of solid and liquid waste management, making the respective characterization and proposing appropriate technologies to their removal and treatment;
- Natural resource management, with particular emphasis on water;
- Noise pollution problems, proposing remediation measures;
- Problems of systems conservation and restoration, using ecological modelling and proposing measures for rebalancing;
- Problems of planning, land use planning and environmental management at the country, region or local level, proposing measures respecting a sustainable development;
- Disaster risk reduction and evaluation of impacts of natural disasters
- Life cycle analysis of products and environmental economics aspects;
- Water supply and sanitation systems;
- Research work in environmental education, public health, agriculture and marine sciences

### **Culmination of studies**

The degree project contemplates several modalities of practical work with component of Participatory Observation, Production Internship, Laboratory Investigation Report (BSc thesis).

### **Specific admission requirements:**

Students must have completed high school studies.

### **Academic cycle and duration:**

4 years

### **Focal point and contact details:**

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