

DEPARTMENT OF LAND RESOURCE MANAGEMENT AND AGRICULTURAL TECHNOLOGY

INTRODUCTION

One of the most critical issues facing the world today is how to manage and use natural resources for sustainable livelihoods and development. For this to be possible, adequate understanding of the resources by the direct user, the technician and the manager is imperative. This is linked to the increasing human population and the accompanying need for resources to sustain it. Pressure has been increasing on natural resources, leading to, inter alia, forest recession, soil erosion, degradation of water catchments and desertification. All these have resulted in reduction of the standards of living of the communities.

The department of Land Resource Management and Agricultural Technology (LARMAT), through training, research and community service, aims at enhancing sustainable natural resource management and development of technologies suitable for sustainable livelihoods, and informing policy.

To achieve this noble goal, the department is guided by the following vision, mission and core values:

Vision: To be a school of excellence in sustainable land resource management

Mission: To provide leadership in sustainable management of land resources and technologies through quality training, research and outreach

Core values:

- Professionalism and ethics
- Transformative education, research and outreach
- Teamwork and partnership
- Environmental sustainability and food security
- Equity and inclusiveness

STAFF PROFILE

The department of LARMAT has a highly qualified academic and technical staff portfolio comprising 80% PhD holders (2 Full Professors, 6 Associate Professors, 3 Senior Lecturers and 4 Lecturers and Technologist, 1 Principle Technologist, 4 Senior Technologists and 5 Technologists)

PARTNERSHIPS

National :KEFRI, KARI, KWS, GOK-Agriculture Sector Ministries, NGO'S, Farming Communities, and Public & Private Sectors

International :CGIAR Center (ILRI, ICRAF, ICRISAT, CIAT, IITA, CIP)

Regional Universities : RUFORUM, IGAD, ASARECA, ANAFE

Development Partners : Local, Regional and International

Partners :USAID, IDRC, SIDA, NCST, Bill & Mellinda Gates Foundation, Rockefeller Foundation, Ford Foundation, AGRA, World Bank, and DFID)

PHYSICAL FACILITIES

- Lecture theatres (Small & Large)
- Teaching Laboratories (Under graduate & Post graduate)
- Research Laboratories with modern equipment
- Field stations in Nairobi, Kibwezi and Malindi
- Internet connectivity and access to Library Resources
- Green Houses
- Microbiological Resources Center (MIRCEN)
- Centre for Sustainable Dryland Ecosystems and Societies (CSDSES)

DEGREE PROGRAMMES

In collaboration with other departments in the Faculties of Agriculture and Veterinary Science, LARMAT offers the following degree programmes:

Bachelors Degree Programmes

- BSc. Management of Agro-ecosystems & Environment
- BSc. Range Management

Masters Degree Programs

- M.Sc. Agro-Forestry
- M.Sc. Land and Water Management
- M.Sc. Management of Agro-ecosystems & Environment
- M.Sc. Range Management
- M.Sc. Soil Science
- M.Sc. Sustainable Soil Resource Management

Doctoral Degree Programmes

- Ph.D. Dryland Resource Management – Course work and research
- Ph.D Agro-Forestry



ENTRY REQUIREMENTS

Candidates must satisfy the minimum entrance requirements of the University of Nairobi. Full details are available on the university website.

SHORT COURSES

The department offers short course in the following areas:

Biological Nitrogen Fixation and Bio-fertilizer Production and Use, Waste Management and Re-Use for Peri-Urban and Rural Agriculture, Compost Making, Organic Agriculture, Irrigation and Drainage, Application of GIS and RS in Land Use Planning

CONTRIBUTION OF STAFF AT NATIONAL, REGIONAL AND INTERNATIONAL

- Representation of University forum of Boards, Committees/Panels
- Sharing knowledge at professional meetings
- Generating technologies, management tools policies and importing skills
- Building partnerships for sustainable management of natural resources.

MAJOR RESEARCH AREAS

Key areas of research by LARMAT staff members include:

- Sustainable dryland resource management
- Soil fertility (Soil quality and health)
- Water resource management
- Reclamation/rehabilitation of degraded soils
- Livestock production/ Human/ Wildlife and interactions
- Dryland livelihood securities and socio-economy
- Urban agriculture and waste management
- Agro-ecological intensification of land use
- Climate Change, adaptation & Mitigation

CONSULTANCY AND ADVISORY SERVICES

The following services are available to our clients:

- Soil survey and mapping
- Environmental Impact Assessment
- Soil testing, plant analysis and interpretation for farmers
- Microhistological analysis
- Land evaluation and land use planning
- Irrigation, drainage and water quality assessment
- Herbarium management
- Organic waste management
- Biofertilizer and biocontrol agents

EMPLOYMENT OPPORTUNITIES

LARMAT graduates find employment in:

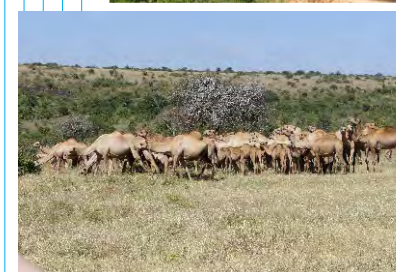
- Government ministries and departments
- National and International Research Organizations
- Non-Governmental Organizations
- Secondary and tertiary teaching Institutions
- Consultancy firms

RESEARCH / TRAINING OUTPUTS

- Legume inoculants production (Biofix)
- Rangeland and wildlife management policies
- Land evaluation for agricultural development
- Capacity building since 1970 in soils, water, range management and drylands



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Gram legume production strategies: Intercropping



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