

6. Integrated Natural Resources Management

Target Group: This course is designed for practitioners in natural resource management; that is people involved in the day-to-day management, coordination and/or supervision of such initiatives and/or projects.

Objectives:

By the end of the course, participants will have acquired the understanding, knowledge and skills to involve all relevant stakeholders in natural resource management project designing and management.

Course Duration and Fees

The course is tailored for three full weeks and is offered in April every year. The tuition fee is sixty five thousand shillings (65,000/=) excluding transport, meals and accommodation.

Training Venue

All courses are conducted at CETRAD offices based at Buttsons Complex, Off Hospital Road, in Nanyuki Town.

Language

All courses are taught in English.

Eligibility for all courses

All the courses are open for graduates with the relevant training background to each particular course. Practising government officers, newly employed graduates, NGO staff and anybody working in the development sector is encouraged to apply.

Consultancy services in the following areas:

- * Land use and land cover changes assessment
- * Land use planning
- * Resource Mapping, Monitoring, and Assessment through Remote Sensing (RS) and Geographical Information Systems (GIS)
- * Integrated River Basin Management
- * Integrated Water Resources Management
- * Soil and Water Conservation
- * Forest Resources Management
- * Integrated Development and Conservation Approaches
- * Rangelands Ecology
- * Resource use conflicts resolutions (Multi-Stakeholder, Multi-Level Approaches)
- * Human-wildlife conflict management
- * Household and Actor Strategies and their Link to Resource Use
- * Rural Development Dynamics: Rural Centres and Agricultural Development
- * Small Scale Enterprises and Infrastructure Development support
- * Dealing with Insecure and Marginal Livelihoods
- * Food Security and Drought Management
- * Gender and Natural Resource Management
- * Conservation Agriculture

- * Integrated Approaches and Methods for Rural Development Appraisal (Participatory Rural Appraisal (PRA), Sustainable Development Appraisal (SDA), Learning for Sustainability, and Geographical Information System (GIS) among others)
- * Participatory Project Monitoring and Evaluation
- * Participatory Policy Analysis and Advocacy
- * Stakeholder Analysis and Involvement Approaches
- * Institutional Arrangements for Resource Use and Management
- * Information Dissemination and Technological Transfer
- * GIS Technical and Advisory support
- * Database Development and Management

Products

Databases and GIS layers at international, national and local coverage

COLLABORATING PARTNERS & PROGRAMMES

CETRAD collaborates with various institutions/organizations at Local & International Levels.

Local Partners:

NEMA, KWS, KFS,SNV, ERMIS Africa, Mpala R.C, ICRAF, Egerton University, UoN etc.

Regional Partners:

University of Dar-es-Salaam, Institute of Resource Assessment in Dar-es-Salaam, and Sokoine University of Agriculture, all in Tanzania.

International Partners:

ESAPP, NCCR North-South Programme, UNDP/GEF/SGP, Syngenta East Africa & Syngenta Stewardship Programme, Darwin Initiative at the Department of Geography, University of Cambridge, FOEN-Switzerland, Volkswagen Foundation.

FACILITATING STAFF

CETRAD activities are facilitated by a team of qualified staff ranging from Socio-Economists, Natural Resource Management specialists, GIS and Remote Sensing specialists, Information Technologist, Hydrologist, Accountants and other supporting staff.

For more details, please visit or contact:

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CETRAD

CETRAD, formally known as Laikipia Research Programme (LRP) is a bilateral institution between the Governments of Kenya and Switzerland. It is executed by the Centre for Development and Environment (CDE), University of Berne, and the Ministry of Water and Irrigation.

MANDATE

CETRAD mandate is to assess and evaluate the potential and the utilisation of the resources in the ASALs of Kenya. This mandate as well includes the assessment and evaluation of the interaction and relations between the ASAL and the high potential areas (in particular mountains and highlands) on the one hand, and the interaction and relations with the economic core regions (in particular urban centres). This mandate is realised through practical oriented and field-based training and area/situation-specific, regionally oriented and applied research for the purpose of developing professional and technical capacities, and maintaining an integrated and comprehensive data and information base for the entire Arid and Semi Arid Lands (ASAL) of Kenya in order to:

- * Understand the natural resource base and assess its potential in view of the ecological and socio-economic dynamics currently taking place in the ASALs,
- * Develop appropriate technological packages and strategies for sustainable resource utilisation to facilitate sustainable development in the ASALs and;
- * Understand and integrate the multitude of the sectoral actors and varied strategies and approaches influencing development in the ASALs.

MISSION

To assess the potential and Utilization of the ASAL

- * To enhance knowledge among planners, decision makers and development agents of the ASALs
- To empower local communities through information dissemination to enable them to participate effectively in the ASAL development process

MAIN THRUSTS

CETRAD s activities are based on the following four major thrusts:

- * Strategies for Sustainable Development
- * Land Use Planning for sustained livelihood and optimal resource use
- * Promotion of sustainable resource use and management for improved productivity; and
- * Non-farm/non-pastoral economic development, infrastructure and services

DEPARTMENTS AND FUNCTIONS

- 1) **Research and Academic Training** (*Creating Knowledge and Capacity*)
- 2) **Information and Knowledge Management** (*Organising and Maintaining Knowledge and Capacity*)
- 3) **Policy and Outreach** (*Applying Knowledge and Capacity*)
- 4) **Administration and Support** (*Logistics, Finances and Personnel*).

SERVICES AND PRODUCTS

CETRAD offers a broad range of services that include short-term training courses, client oriented research and consultancy services, as well as various products in the broad areas of socioeconomics, natural resources management, and GIS and Remote Sensing.

Courses Offered

CETRAD offers the following scheduled & non-scheduled short courses in the following areas:

- * Food Security and Drought Management
- * Geographical Information Systems (GIS) for Resource Planning and Management
- * Environmental Impact Assessment and Audit (EIA/A)
- * Integrated Water Resources Management (IWRM)
- * Resource use Conflicts Management

1. Food Security and Drought Management Course

Objectives:

To impart practical knowledge and enhance general understanding about:

- * The nature of rural livelihoods and the causes of their insecurity in the ASALs of Kenya Food security situation in the ASALs Drought occurrences and Drought related disasters and their effects on people s livelihoods and the general development trends.
- * To impart technical skills and Practical methods to assess food security and drought situation in the ASALs
- * To create a clear understanding and enhance the appreciation of the link and relevance of the existing policy framework to food security and drought..
- * To review and assess the effectiveness of the existing strategies and intervention programmes to cope with food insecurity/ shortages and mitigate the effects of drought related disasters.

Course Duration and Fees

The course is tailored for three full weeks and is normally offered in March every year. The tuition fee is sixty thousand shillings (KShs. 60,000 per week and is negotiable), excluding transport, meals and accommodation

2. Geographical Information Systems

Objectives:

The objective of the course is to enable participants acquire a sound theoretical and practical basis in the use of the most common GIS operations. The Course emphasises on unequivocal definition of quality standards and the broadening of each participant s palette of concrete implementation possibilities.

Course Duration and Fees

The course takes three full weeks and is offered in March every year. The tuition fee is seventy thousand shillings (KShs. 70,000 per week and is negotiable), excluding transport, meals and accommodation.

3. Environmental Impact Assessment and Audit (EIA/A)

Objectives:

To develop EIA/EA capacity for local institutions To impart skills and technical knowledge on the integration of environment, culture and legislations

To expose the trainees on the policy and legislative requirements for environmental management and development practices To train the participants on the methodologies, tools, and processes for conducting EIA/EA

To expose trainees to field study sites to appreciate the essence of EIA/EA

Course Duration and Fees

The course is tailored for three full weeks and is offered in November every year. The tuition fee is sixty-five thousand shillings (KShs. 65,000 per week and is negotiable), excluding transport, meals and accommodation.

4. Integrated Water Resources Management (IWRM)

Objectives:

- * To build capacity on IWRM for local and international institutions.
 - * To introduce learners to the concepts of IWRM
- * To equip learners with knowledge on principles, processes and steps of IWRM
- * To establish the linkage between IWRM and Sustainable development

Course Duration and Fees

The course is tailored for three full weeks and is offered in November every year. The tuition fee is sixty thousand shillings (KShs. 60,000 per week and is negotiable), excluding transport, meals and accommodation.

5. Resource Use Conflict Management

Goal: Capacity development for the creation of critical mass of actors and decision makers able to identify potential resource use conflict areas and devise mitigating measures proactively.

Course Objectives

This course has the following objectives:

- * To enable the participants to understand the relationship between resources use and conflicts, access and control, which could trigger conflicts.
- * To identify signs of potential conflicts and how to develop mitigating and coping mechanisms in order to avoid them.
- * To impart skills on conflict preparedness and post-conflict recovery management strategies.