Information and Communication Technologies for Capacity Building in Water Management - India U.S. Collaborative Extension/Outreach and Distance Education

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& AKI Project Team

http://akicb.ifas.ufl.edu
Capacity Building in Water Management

- Punjab Agricultural University (PAU)
- Indian Council Agricultural Research (ICAR)
- Tamil Nadu Agricultural University (TNAU)
- Acharya N.G. Ranga Agricultural University (ANGRAU)
- International Crops Research Institute for the Semi-Arid Tropics (ICRISAT)
- University of Florida (UF)

Reciprocal training/interaction
EcoLearnIT RLO System

Reusable Learning Object

http://ecolearnit.ifas.ufl.edu

Release of EcoLearnIT vers. 1.5 (February 2009)
Individual capacity building

- Training in RLO development / ICT
- Joint development of RLOs

Institutional Capacity Building

- Learning units are streamlined into shared digital repository (DR)
- Sustainability of DR beyond project time frame
- Blend into ag knowledge grid India

Communication / partnership

- Partners share knowledge
- Awareness building
- Joint development of values, concepts, and indicators relevant for water management

Learning/study experience

- Extension / outreach
- Distance education
- In-service training
- Existing curricula/courses

Global community

- RLO-based open-access (24/7) library of educ. res.
- Knowledge sharing
(a) Identify needs in the use of GIS and remote sensing tools in water management, explore best practices in the use of innovative e-technologies to support extension, outreach, certificate and in-service training programs.

**Project activities: Short course program (UF-ICRISAT)**

- GIS – Applications in Land Resource Management (July 31-Aug. 4, 2006)
- GIS – Know-how of Geospatial Analysis (July 27-31, 2009)
Specific Project Objectives (a)

Project activities:
- Identify critical need areas (research) – efficient water management (India)
- Identify data/methods/monitoring – efficient water management (India)
- Share experiences educational activities (U.S./India)
(b) Build individual and institutional capacity through faculty/scientists/extension specialists exchange and training programs among partner institutions and create development teams based on specific needs.
Project Activities:

- **March 5-9, 2007**: Kick-off workshop “Innovative E-technologies for Distance Education, Extension/Outreach in Efficient Water Management” at ICRISAT, Patancheru/Hyderabad, AP

- **February 2-24, 2008**: Indian project group at UF (training and capacity building activities);
  Workshop “Reusable Learning Objects”
  Showcase of RLOs

- **May 11-15, 2009**: Workshop “Integrated Education, Research and Extension – E-Tools & RLOs to Foster Learning” at ICRISAT
(c) Provide local / regional relevant interdisciplinary reusable learning objects (RLOs) streamlined into a shared online library that is sustainable beyond the time-frame of this project to establish a long-term partnership.

Project activities:

- 17 RLOs developed jointly by Indian-UF project participants
- Indian EcoLearnIT users/RLO developers: 21
  (4-ANGRAU; 6-TNAU; 6-PAU; 2-ICRISAT; 1-ICAR; 2-elsewhere India)
- Total number of EcoLearnIT users: 135
Assessing the Performance of Tank Irrigation System
By Karthikeyan Chandrasekaran (Thanal Nadu Agricultural University) et al.

Watershed Based Farming Systems Approach
By gidda reddy (ANGR, Agricultural University) et al.

Participation in Watershed Management
By Arya Swarn Lata (ICAR, India)

Learning Objectives
To understand what participation means and its importance for farmer-led sustainable Integrated watershed management programme

Author
Arya Swarn Lata (ICAR, India)

RLO Number: 54
RLO Release Date:
Specific Project Objectives (d)

(d) Integration of RLOs into various modes of learning activities in the US and India.

Project activities:

- 3 courses at UF: SOS 6488, SOS 5720C, and SOS 4720C
- TNAU: Seminar on RLO; extension/RLO development
**Proposal:**

- Document research findings (AKI projects) in form of RLOs
- Produce a larger learning unit (module) that showcases various AKI-RLOs (useable for instruction/outreach)