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OAI752 INTEGRATED WATER RESOURCES MANAGEMENT

DETAILED SYLLABUS

OBJECTIVE:

- To introduce the students to the interdisciplinary analysis of water and conceptual design of intervention strategies.
- To develop a knowledge-base on capacity building on IWRM.

UNIT I IWRM FRAMEWORK

Definition – Objectives – Principles - Evolution of IWRM - IWRM relevance in water resources management – Paradigm shift: Processes and prospective outcomes

UNIT II CONTEXTUALIZING IWRM

UN formulations - SDG goals - IWRM in Global, Regional and Local water partnership – Institutional transformation - Bureaucratic reforms - Inclusive development

UNIT III EMERGING ISSUES IN WATER MANAGEMENT

Emerging Issues -- Drinking water management in the context of climate change - IWRM and irrigation - Flood -- Drought -- Pollution -- Linkages between water, health and poverty

UNIT IV IWRM AND WATER RESOURCES DEVELOPMENT IN INDIA

Rural Development - Ecological sustainability- -Watershed development and conservation - Ecosystem regeneration - Wastewater reuse - Sustainable livelihood - Food security

UNIT V ASPECTS OF INTEGRATED DEVELOPMENT

Capacity building - Conceptual framework of IWRM – Problems and policy issues - Solutions for effective integrated water management - Case studies

OUTCOMES:

The students will be able to

- Understand objectives, principles and evolution of integrated water resources management
- Have an idea of contextualizing IWRM

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- Gain knowledge in emerging issues in water management, flood, drought, pollution and poverty.
- Understand the water resources development in India and wastewater reuse.
- Gain knowledge on integrated development of water management.

TEXTBOOKS:

- 1. Mollinga P. et al. "Integrated Water Resources Management", Water in South Asia Volume I, Sage Publications, 2006.
- 2. Sithamparanathan, Rangasamy, A., and Arunachalam, N., "Ecosystem Principles and Sustainable Agriculture", Scitech Publications (India) Pvt.Lt, Chennai, 1999.

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- 1. Cech Thomas V., Principles of Water Resources: History, Development, Management and Policy. John Wiley and Sons Inc., New York. 2003.
- 2. Murthy, J.V.S., "Watershed Management in India", Wiley Eastern Ltd., New York, 1995.
- 3. Dalte, S.J.C., "Soil Conservation and Land Management", International Book Distribution, India, 1986.