



CENTRE FOR
SCIENCE AND
ENVIRONMENT

COMPREHENSIVE CAPACITY BUILDING PROGRAMME ON Sustainable Decentralised Wastewater Treatment (Including Reuse and Recycle)



January 15-18, 2013

Course Outline

Venue:

Anil Agarwal Green College
38, Tughlakabad Institution, New Delhi

Day 1: 15 January, 2013

Session	Time	Topics	Faculty
	11:30 – 12:00	Registration	Water Team, CSE
Module 1: Introduction			
	12:00 – 12:30	Welcome address and About CSE	Ms B P Sridevi, Director, NURM IV/ Dr Suresh Rohilla Programme Director, CSE
Module 2: Urban Wastewater and Sanitation – An Overview			
	12:30 – 13:30 Lunch		
	13:30 – 14:30	Urban Water management- challenges and issues with specific reference to JnNURM	Dr Suresh Rohilla Programme Director, CSE
	14:30 – 15:30	Report card and road map of wastewater management and sanitation in JnNURM mission cities	Dr Deblina Dwivedi <i>programme officer</i> , CSE
	15:30 – 15:45 Tea Break		
Module 3: Decentralised approaches in treating urban sewage			
	15:45 – 16:25	Film- Fecal Attraction: The Political economy of defecation	Audio Video unit, CSE
	16:25 – 17:00	Domestic Wastewater treatment: Basics	Dr Deblina Dwivedi, CSE
	17:00 – 18:15	Introduction to Decentralised Wastewater Treatment systems	Dr Deblina Dwivedi, CSE

Day 2: 16 January, 2013

Module 4: Decentralised approaches in treating urban sewage- Do it yourself			
	10:00 – 11:00	Introduction to Soil Bio technology (SBT)	Prof H.S. Shankar, Dept of Chemical Engineering, IIT Bombay
	11:00 – 11:15 Tea Break		
	11:15 – 12:15	Planning, designing and implementation of SBT	Prof H.S. Shankar, Dept of Chemical Engineering, IIT Bombay
	12:15 – 13:00	Clean Your Act	Audio Video unit, CSE
	13:00 – 14:00 Lunch		
	14:00 – 15:00	Planning and designing of DWWT components	Dr Deblina Dwivedi, CSE
	15:00 – 15:30	Economics and cost recovery of DWWT in India	Dr Deblina Dwivedi, CSE
	15:30 – 15:45 Tea Break		
	15:45 – 16:00	Introduction to planning and designing of DWWT components (working in groups)	Parul, CSE
	16:00 – 18:00	Preparation of plan and design for different DWWT projects	Parul, CSE

Day 3: 17 January, 2013**Module 5: Decentralised approaches in treating urban sewage (cont.)**

10:00 – 11:00	Constructed Wetlands- Approach and Practices	Dr. Deblina Dwivedi, CSE
11:00 – 11:15 Tea Break		
11:15 – 12:00	Presentation by participants	Group presentation
12:00 – 13:00	Preparation of City Sanitation Plans - Strategies under NUSP in Northern Indian states	Prof S.V. Chary, ASCI, Hyderabad
13:00– 14:00 Lunch		
14:00 – 18:00	Field trip	

Day 4: 18 January, 2013**Module 6: Wastewater Recycle and Reuse- Policy and Review**

9:00 – 10:00	Recycling and reuse of treated sewage – policy, options and standards	Dr Suresh Rohilla Programme Director, CSE
10:00 – 11:00	Bioremediation for municipal wastewater treatment – Experiences that hold promising solution	Manu Bhatnagar Advisor, INTACH, New Delhi
11:00 – 12:00	Wastewater Recycle and Reuse- Indian experiences	Sanjay Ghularia NJS Consultant, New Delhi
12:00– 12:30	Recycle and Reuse of Municipal Wastewater – Concern for long time health effect	Dr Nandini Sharma Maulana Azad Medical college, New Delhi
12:30 – 13:00	Summary way forward and feedback	Dr Suresh Rohilla Programme Director, CSE
13:00 – 13:15	Distribution of certificates	B P Sridevi, Director, NURM IV
13:15 – 14:15 Lunch		