

**Ministry of External Affairs  
DPA II Division**

**ITEC COURSE PROPOSAL SUMMARY**  
(duly filled form to be scanned and sent as scanned pdf by email)

**1. Administrative details**

<b>Course Title</b>	Environmental Management (EM)		
<b>Stream</b>	Environment and Climate Change		
<b>ITEC Coordinator/ Course Director</b>	Dr. J. Rajeswar , Training Coordinator, EPTRI		
<b>Course Duration:</b>	from	<u>16<sup>th</sup> – 29<sup>th</sup> October, 2024</u>	; <u>2</u> weeks
<b>No. of days of training</b>	<u>14</u> days =	<u>90</u> learning hrs (approximate)	
<b>Accommodation</b>	Type: <u>Hostel</u>	Distance from Campus	<u>within campus</u>
	Name of Hostel: <u>EPTRI Executive Hostel</u>		
<b>Airport (nearest)</b>	Location:	Hyderabad	Distance from campus/ accommodation 33 kms
<b>Batch Size</b>	Minimum participation =	30	Maximum participation = 35
<b>Study tour</b>	Type of visit	Places to visit (with location)	No. of days
	Educational	1. Kaleshwaram Lift Irrigation Project 2. Hyderabad Integrated Municipal Solid Waste Management 3. Hyderabad Metropolitan Water Supply and Sewerage Board	2
	Cultural/ Heritage	Salarjung Museum, Charminar, Chowmallah Palace, Seven Tombs, Hussain Sagar	2

**2. Financial proposal**

S. No.	Fee component	Unit	Per participant cost	Total Cost for all participants
1	Course Fee	per week per participant	6000	420000
2	Study tour charges	per participant	8500	297500
3	Other charges (for Project, lab analysis etc.)	per participant	35000	1225000
4	Accommodation charges (inclusive of taxes) – Hostel	per day/night per participant	1500	735000
5	Airport pick-up and drop charges (inclusive of taxes) – for both ways	per participant	3000	105000
6	Living allowance	per day per participant	1500	735000
7	Book allowance	per participant	5000	175000
8	Valedictory/ inaugural allowance	per participant	300	10500
<b>Course Duration (in weeks)</b>		<b>2 weeks</b>	<b>Total estimated expenditure</b>	<b>3703000</b>
<b>Participants (maximum)</b>		<b>35</b>		

# Rate of Living Allowance if fixed under guidelines (@ Rs. 1,500/- per day for up to 12-week long course and @ Rs. 1,200/- per day for courses of longer duration). Ceiling on Book Allowance and Valedictory/ inaugural allowance is also fixed @ Rs. 5,000/- per participant and @ Rs. 300/- per participant respectively.

'Lump-sum' fees for online component if any, along with number of learning hours	N/A
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**3. Training Schedule: A simple thematic/ day-wise schedule (topics covered) may be attached.**

Schedule will be prepared subsequently

**Submitted by:**  
(sign and stamp of appropriate authority of the Institution)

## COURSE DETAILS

A. Name of the Institute	<b>Environment Protection Training and Research Institute (EPTRI), Hyderabad, Telangana, India</b>
B. Name/Title of the Course	<b>Environmental Management</b>
C. Course Dates with Duration in Weeks	From 16 <sup>th</sup> – 29 <sup>th</sup> October, 2024 In weeks: Two (2) Weeks
D. Eligibility Criteria for Participants 1. Educational Qualifications 2. Work Experience required, if any 3. Age Limit 4. Target Group	Bachelors or Masters Degree in Sciences, Social Sciences and Engineering Minimum 2 years in relevant area 25-45 years Junior to Senior Level Government officials, Academicians, Environment Regulatory Authority, Urban Local Bodies and Public/Private Sector officials dealing with Environmental Management including under-graduate, graduate & research scholars.
E. Aims & Objectives of the Course	The course will give an opportunity to learn about trends that influence the environment and the living conditions and how different management systems and approaches are used around the world to manage the environment. It will include current environmental technologies built for the environment and technologies for sustainable soil management, groundwater protection methods and integrated water resources management.
F. Course Contents	Course content overleaf
G. Mode of Evaluation of performance of the participants	<ol style="list-style-type: none"><li>1. During the course, questions, will be posed to the participants</li><li>2. Participants will be requested to recap the previous day program</li><li>3. Exercise will be given, the result of which will constitute the performance evaluation.</li><li>4. Participants will make presentation on existing and future plan of action in their respective organizations. This exercise will provide a chance to the participants to think through what they have learnt, new things they can adopt.</li></ol>

# Environmental Management

## Rationale for training in Environmental Management<sup>1</sup>:

The course will give an opportunity to learn about trends that influence the environment and the living conditions and how different management systems and approaches are used around the world to manage the environment. It will include current environmental technologies built for the environment and technologies for sustainable soil management, groundwater protection methods and integrated water resources management.

## The objectives of the course on Environmental management:

1. Learn global trends influencing the environment and living conditions
2. Learn about different management systems and approaches used to manage the environment
3. Learn about technologies for built environment
4. Learn about technologies for sustainable soil management, groundwater protection and integrated water resources management

## Course contents:

### 1. Trends: National and Global

- i. Course structure
- ii. Sustainable Development
- iii. Demographic Trends
- iv. Urbanization
- v. Urban transport and public areas
- vi. Urban Housing
- vii. Environment health

### 2. Environmental Management

- I. Assessing water quality
- II. Cities and climate change
- III. Waste in resource efficiency
- IV. Participation in Environmental Management
- V. Stakeholder and Social Sustainability Analysis
- VI. Case studies (1-3)

### 3. Environmental Management by Utilities

- i. Integrated Urban Water Management (IUWM)– issues and challenges
- ii. Case study: Storm water Management
- iii. Case study: Water Supply and IUWM
- iv. Environment Management in Rural Areas
- v. Air Pollution
- vi. Solid Waste Management - Phases
- vii. Solid Waste Management Systems and Regulations

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<sup>1</sup> This module is prepared keeping in line with the International Developments and Developments in India and as per a course run by the Technical University of Denmark (DTU)

**4. Built Environment - Technologies**

- i. Introduction to Integrated Urban Drainage- Wastewater Systems
- ii. Urban Water Technologies
- iii. Safe and Optimal Water Supply
- iv. Rural Environmental Technologies
- v. Solid Waste Technologies
- vi. Case studies

**5. Other Technologies**

- i. Groundwater Protection
- ii. Soil Mangement
- iii. Regional Water Resources Management

**6. Sustainable Development Goals (SDG's)**

**7. Design Thinking for strategy & innovation**