

COURSE DETAILS

A. Name of the Institute	Environment Protection Training and Research Institute (EPTRI), Hyderabad, Telangana
B. Name/title of the Course	Climate Change and Human Health
C. Proposed Dates and Duration of the Course in weeks / months	From: 21st January – 3rd February, 2026 Two (2) weeks
D. Eligibility Criteria for Participants 1. <i>Educational Qualification</i> 2. <i>Work Experience</i> 3. <i>Age Limit</i> 4. <i>Target group</i>	<ul style="list-style-type: none"> • Bachelor's Degree and above in Basic sciences/ Social Sciences and Humanities/ Management / Medical Science and Engineering • Minimum of 2years of experience • 25 – 45 years • Government officials from concerned departments, Practitioners, Academicians and Policy makers
E. Aims & Objectives of the Course	<p>Aims: To deduce the impacts of climate change on Human Health addressing the climate induced tropical diseases and non-communicable diseases in developing countries, and to design a holistic roadmap for climate resilient public health involving medical, nutritional, health-infrastructure, Institutional arrangements and community health practices.</p> <p>Objectives:</p> <ol style="list-style-type: none"> 1. To enlist climate induced tropical diseases and non-communicable diseases. 2. To identify the hotspots of climate induced epidemics & endemics. 3. To elaborate on the responsibility of the State in health as a basic right. 4. To identify the contribution of Public Private Partnership (PPP) and private investments in public healthcare. 5. To monitor prevailing health care system for climate resilience and identify remedial measures. 6. To make disease mapping of climate induced health hazards. 7. To design & develop a systems perspective on Public Health & Climate Change
F. Details / Content of the Course	Course content overleaf
G. Mode of Evaluation of Performance of the ITEC Participant	<ul style="list-style-type: none"> • Individual and group work to evaluate the understanding of the issues under discussion and retain the acquired knowledge. • Mock exercises, Role play, Case studies, Individual presentations and other tasks will be proposed to the participants.
H. Name of the Department	Training Division, EPTRI

Climate Change and Human Health

Rationale of the Course

Climate change is one of the most significant global health threats of the 21st century. Raising awareness about health implications of climate change enables individuals and communities to take proactive measures. Orientation on a comprehensive integrated Health Mission addressing several cross-cutting themes of health, ranging from Human Health to Public Health, Environmental Health, Nutrition, Food Security and Social welfare covering Gender and Social-Inequity issues.

Structure of the Programme

This course is structured into eight modules. Course has a proper blend of lecture, demonstration and field visits, case studies, group exercises etc.

Module 1: Introduction to Climate Change and Public Health

- Overview of climate change: Causes, effects, and new trends in global health
- Linkages between the climate change, public health and human health aspects.
- International climate change legal frameworks for addressing climate & health
- The role of public health in climate change adaptation and mitigation.

Module 2: Health Impacts of Climate Change

- Heat-related illnesses and extreme weather events
- Vector-borne and waterborne diseases (e.g., malaria, dengue, cholera)
- Air pollution and respiratory diseases (e.g., asthma, COPD)
- Food security, malnutrition, and climate change
- Mental health and psychosocial impacts of climate change
- Case studies on health crises caused by climate change

Module 3: Vulnerable Populations and Health Equity

- Identifying vulnerable populations (children, elderly, low-income communities, indigenous groups).
- Health and Climate Policy, Policy Instruments
- Gender and climate change: Unique challenges faced by women and children.
- Strategies to improve climate justice and health equity.

Module 4: Climate-Resilient Health Systems

- Strengthening health infrastructure to withstand climate stressors.
- Climate-smart healthcare facilities and sustainable practices.
- Emergency preparedness of healthcare infrastructure and disaster response planning.
- Early warning systems and health surveillance.

Module 5: Climate Change Mitigation and Public Health Co-Benefits

- The role of public health in reducing greenhouse gas emissions.
- Sustainable transportation, urban planning, and air quality improvement.
- Promoting clean energy solutions and their health benefits.
- Reducing carbon footprints in the healthcare sector.

Module 6: Policy, Governance and Advocacy

- International agreements (Paris Agreement, SDGs, Sendai Framework).
- The role of public health professionals in climate advocacy.
- Engaging policymakers and communities for effective climate action.

Module 7: Research, Data, and Decision-Making

- Climate health vulnerability & risk assessments.
- Monitoring and evaluation of climate-health programs.
- Integrating indigenous medicine and traditional knowledge with scientific research.
- Innovative technologies for climate and health solutions.

Module 8: Action Plan, Case Studies, Best Practices and Future Directions

- Creating climate-resilient health action plans.
- Cross-sectoral collaboration and partnerships.
- Global and local case studies on climate change and health interventions.
- Lessons learned from past climate-health crises.
- Emerging technologies and innovations for climate resilience.
- Future directions in climate change and public health integration.