

COURSE DETAILS

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| A. Name of the Institute | Environment Protection Training and Research Institute (EPTRI), Hyderabad, Telangana |
| B. Name/title of the Course | Circular Economy and Inclusive Growth(CEIG) - Women Only |
| C. Proposed Dates and Duration of the Course in weeks / months | From 17-09-2026 to 30-09-2026; 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> | <p>Bachelor's Degree in Basic sciences/ Economics/ Social Sciences and Humanities/ Management and Engineering - Women Only</p> <p>Minimum of 2 years of experience</p> <p>25 –45 years</p> <p>Government officials from concerned departments, Practitioners, Academicians, Activists, and Policy makers</p> |
| E. Aims & Objectives of the Course | <p>Aim: To bring in a paradigm shift in resource management from Conventional Economics to Environmental Economics, Ecological Economics, and industrial ecology with multiple benefits of resource conservation, waste recycling in industries, green livelihoods, improved farm household incomes, reduced pollution and mitigation of climate change</p> <p>Objectives: To create sustainable economic system where resource utilization is maximized and waste is minimized through reuse, recycling and refurbish while actively ensuring that the benefits of this system reach all members of society, preventing marginalization and promoting equitable participation in economic opportunities across different demographics</p> |
| 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 |

CIRCULAR ECONOMY AND INCLUSIVE GROWTH - Women Only

Rationale of the Course:

The course will give knowledge on sustainable economic practices which includes both environmental and social challenges. Circular economies are more helpful in sustainable alternative with the reuse, recycling, and repair of resources, which reduce waste while conserving materials. For effective circular economy practices and inclusive growth, it is a prerequisite that all lower strata of society, particularly marginalized communities, benefit from the transition. Inclusive growth ensures that economic opportunities and the benefits of sustainability are shared widely, reducing inequalities and promoting social equity. This training also helpful to equip individuals, businesses through Micro Small and Medium Enterprises (MSME) and policymakers with knowledge and skills which would be useful to adopt circular economy models that not only preserve resources but also create economic opportunities for all. Training in this area also helps in foster innovative solutions, inform policy decisions and support the development of business models that contribute to both environmental sustainability and social inclusion, finally leads towards a more resilient and fair economy.

The objectives of the course on Circular Economy and Inclusive Growth:

- To understand differences between linear and circular economic models
- To learn how businesses can adopt circular economy principles to reduce waste and improve usage of resource for clean environment.
- To understand how circular economy can support inclusive growth by creating equitable economic opportunities for marginalized communities.
- To explore the economic implications and study the policy frameworks towards the circular economy initiations.
- To Identify Opportunities for Circular Innovations.
- To assess the impact of circular economy practices on sustainability, employment opportunities and social inclusion.
- To explore strategies for increasing circular practices, overcoming challenges, and ensuring long-term sustainability.

Course Modules:

1. Introduction to the circular economy

- a) Basic definition, principles and evolution of circular economy
- b) Understanding the differences between linear and circular economic models
- c) Distinguishing between neo-classical economics, environmental economics and ecological economics.
- d) The concept of social ecology and industrial ecology for circular economy
- e) The “3Rs” (reduce, reuse, recycle)

2. Drivers and advantages of Circular Economy

- a) **Environmental benefits** towards reducing waste, conserving resources, and minimizing carbon footprints.
- b) **Economical benefits** like resources use efficiency, cost savings, business opportunities and innovations.
- c) **Social benefits** towards creation of jobs, poverty reduction and promoting equity.

3. Business Models for Circular Economy

- a) Production design principles that support circular economy
- b) Extending product life and minimizing waste
- c) Enabling the lower rung stakeholders in the supply chain of Environment Social Governance (ESG) of corporate sector.

4. Inclusive Growth and its Intersection with Circular Economy

- a) Instrument of access to credit and finance for the unorganized sector.
- b) *Circular Economy* in creating jobs for marginalized communities and reducing inequity.
- c) Empowering smaller businesses and local economies through circular practices.

5. Policy and Regulatory Frameworks

- a) Indigenous circular economy practices
- b) Regional, National and international circular economy policies
- c) **Government Incentives and Regulations in** supporting the transition to circular economy models
- d) Role of Government in promoting circular economy

6. Measuring the Impact of Circular Economy

- a) Key metrics for assessing the environmental impact of circular practices through the **Sustainability Indicators**
- b) Women empowerment in circular economy
- c) Measuring the **Economic and Employment Metrics**
- d) **Resource efficiency and cost savings**
- e) **Impact on GDP and economic growth**
- f) **Impact** of the circular economy in promoting social inclusion and equality

7. Overcoming Challenges in Implementing Circular Economy

- a) Cultural, financial, and infrastructural challenges
- b) Engaging stakeholders and sustaining the momentum
- c) Green credits program as a financial instrument for promoting conservation practices

8. Case Studies and Best Practices

- a) Case studies from businesses, cities, and countries that have successfully implemented circular economy models.
- b) Success stories and challenges of circular economy implementation
- c) Aligning circular economy strategies with SDGs
- d) Circular economy in Municipal waste management,
- e) Circular economy in Vehicle Scraping and batteries etc.

9. Field visit to recycling facility Circular Business Models and Circular Economics

- a) Visit to tribal hamlet, Mallela Theertham
- b) Kitchen waste to energy - biogas plant at Osmania university hostels
- c) Waste water recycling unit at Hyderabad Metropolitan Water Supply and Sewerage Board