

## Renewable energy and energy efficiency

The course aims to develop an understanding of the existing and emerging renewable energy technologies, and energy conservation and efficiency improving techniques. It covers basics of different sources and forms of energy, role of renewable energy, energy efficiency, solar thermal technology and its application, wind power, biomass gasifier based system development, small hydro technology, renewable energy policies, rural energy issues, overview of Indian energy scenario and demand side management.

Course coordinator – Mr Sunil Dhingra (dhingras@teri.res.in)

## How to apply

Fill up the ITEC/SCAAP application form (downloadable <http://itec.mea.gov.in>), and submit it to the nodal government department/agency designated to nominate candidates. The nodal department/agency will in turn forward the applications to the Embassy/High Commission of India. Selected participants will be informed by the Indian embassies of the respective ITEC/SCAAP countries.

## Scholarship

Government of India will bear the following expenses for the selected candidate:

- Return international airfare by excursion/ economy class
- Course fees
- Accommodation – hostel (depending on availability, it could be on single or sharing basis).
- Living Allowance @ Rs. 10,000 per month. Candidates are, among other things, expected to meet the expenditure for their meals from this amount.

For more details visit <http://itec.mea.gov.in>

## Venue and accommodation

The hostel accommodation for the participants would be in the TERI RETREAT/TERI University. Both the training complexes are a demonstration of sustainable, green, and productive habitat created through application of scientific methods and technique. They both showcase the concept of modern green buildings. Both the complexes have state of the art laboratory, library, well-equipped IT resource centre and other facilities.

## About TERI

TERI is an autonomous, not-for-profit, research institute committed to every aspect of sustainable development. Its work ranges from providing environment-friendly innovative solutions to rural energy problems to tackling global climate change issues. TERI's vision statement captures this - 'We will work towards global sustainable development, creating innovative solutions for a better tomorrow'. It is headquartered at New Delhi, with regional centres in Goa, Bangalore, Guwahati, Mukteshwar, and field sites located in different parts of India. TERI has established a presence in Malaysia and Japan, apart from affiliations with institutes in Washington, DC (USA), London (UK), and Dubai (UAE).

# TERI-ITEC Courses for 2010/11



## For further information, contact

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TERI (The Energy and Resources Institute) is offering seven courses for the academic year 2010/11 under the ITEC (Indian Technical and Economic Cooperation)/SCAAP (Special Commonwealth African Assistance Programme) of the Government of India.

## Courses offered and dates

- Integrated approach towards sustainable development — 05.07.2010–24. 07.2010
- Applications of biotechnology and its regulation — 02.08.2010–22.08.2010
- Designing and implementing solar energy-based livelihood projects for rural communities — 06.09.2010–24.09.2010
- Climate change and sustainability — 25.10.2010–12.11.2010
- Decentralised energy solutions – planning and implementation — 22.11.2010–10.12.2010
- Trade and sustainable development – issues for developing countries — 22.11.2010–11.12.2010
- Renewable energy and energy efficiency — 03. 01. 2011–21.01. 2011

## Advantages of attending the courses

- Increased understanding of various dimensions of climate change, energy-efficient technologies, biotechnology, trade, and sustainable development.
- Dissemination of practical knowledge to the participants on energy-efficient technologies and facilitation of pillars of sustainable development through field visits.
- Wider exposure to India, as the course lectures are complemented by study tours.

## Eligibility

The courses are designed to meet the needs of early/mid-career government/nongovernmental officials. The eligibility criteria for the participants are as follows.

- *Integrated approach towards sustainable development* (maximum number of participants – 30)
  - Bachelor's degree in any discipline
- *Applications of biotechnology and its regulation* (maximum number of participants – 30)
  - Bachelor's degree with science in school; work experience of 2 years
- *Designing and implementing solar energy-based livelihood projects for rural communities* (maximum number of participants- 30)
  - Bachelors degree in any discipline; work experience 2years
- *Climate change and sustainability* (maximum number of participants – 30)
  - Bachelor's degree in any discipline; work experience of 1-2 years
- *Decentralised energy solutions – planning and implementation* (maximum number of participants – 30)
  - Bachelor's degree in any discipline; work experience of 2 years
- *Trade and sustainable development – issues for developing countries* (maximum number of participants – 30)
  - Bachelor's/Master's degree; work experience of 2 years
- *Renewable energy and energy efficiency* (maximum number of participants – 30)
  - Bachelor's degree in engineering/technology; work experience 2 years

## Details of the courses

### ■ Integrated approach towards sustainable development

The course aspires to offer knowledge and skills to incorporate sustainability concerns in policy/managerial decisions utilizing systematic approaches. The course covers environmental systems, natural resources and management principles, business and sustainability, economic reasoning and sustainable development practices. Course coordinator – Dr Suresh Jain (sureshj@teri.res.in)

### ■ Applications of biotechnology and its regulation

The course aims to provide a unique blend of theory and practical training in various aspects of biotechnology. It provides a basic understanding of biofuels, traditional and advanced biotechnology, environmental and bioethical concerns of new technologies, legal framework for biosafety regulations and risk assessment & management. Issues related to sustainable agriculture through application of biofertilizers and biopesticide; food safety and impact of IPRs on future agriculture development, will be discussed with special reference to developing countries. Course coordinator – Dr Vibha Dhawan (vibhad@teri.res.in)

### ■ Designing and implementing solar energy-based livelihood projects for rural communities

The course aspires to offer a blend of theoretical understanding of solar photovoltaic technology and its practical application to provide improved energy access through creation of energy enterprises at the local level in developing countries. It focuses on energy access issues, solar energy as an option to provide decentralized energy solutions and the design, planning, implementation and monitoring techniques for solar energy projects. Course coordinator – Mr Debajit Palit (debajitp@teri.res.in)

### ■ Climate change and sustainability

The course aims to provide an understanding of the various aspects of climate change and its implications for sustainability. It would also address the issues of available mitigation options and vulnerability measures. The course covers international and national responses to climate change and CDM options for developing nations. It will also deal in planning issues for sustainable development, mitigation options, and issues concerning impacts besides vulnerability and impact assessment. Course coordinator – Dr Kamna Sachdeva (kamna.sachdeva@teri.res.in)/Ms Sreeja Nair (Sreejan@teri.res.in)

### ■ Decentralized energy solutions- Planning and implementation

The course aims at sensitizing participants on decentralized generation (DG) technologies and to study the extent to which DG can fill the demand–supply gap created by the limitation of grid extension. It focuses on rural electrification issues, renewable energy and distributed power sources, DG technologies and options for village electrification, scientific assessment of renewable energy resources, use of decision making tools and software for designing village electrification projects. Course coordinator- Mr Rakesh Prasad (rakeshp@teri.res.in)

### ■ Trade and sustainable development – issues for developing countries

The course provides an introduction to multilateral and regional trade regime, global institutions and sustainability, multilateral environmental agreements and trade linkages. It has a special focus on developing country concerns and south-south trade. Course coordinator – Mr Nitya Nanda (nitya@teri.res.in)