Course 6- Renewable energy and energy efficiency

|  |  |
| --- | --- |
| A. Name of the Institute | The Energy and Resources Institute (TERI) |
| B. Name/Title of the Course | Renewable energy and energy efficiency |
| C. Course Dates with Duration in Weeks  *[note: dates may be fixed keeping in mind festivals, holidays, weather conditions, availability of accommodations, etc. No request for change in dates, once approved/ circulated will be entertained]* | **06-02-2017- 24-02-2017, 3 weeks** |
| D. Eligibility Criteria for Participants  1. Educational Qualifications  2. Work Experience required, if any  3. Age Limit  *[note: ITEC norms is 25-45 years]*  4. Target Group *[Level of participants and target ministries/departments etc. may be indicated]* | Bachelors  2 years  25-45 years  4) Both Governmental and non governmental participants |
| E. Aims & Objectives of the Course | Sensitization of the participants on renewable energy and energy efficiency |
| F. Course Contents / Syllabus *[please attach course details / profile in Word Format for uploading on ITEC website]* | Basics of different sources and forms of energy  Role of Renewable Energy  Role of Energy Efficiency  Solar thermal technology and its application  Wind power  Biomass gasifier based system development  Issues and challenges  Small hydro technology  Policies related to Renewable Energy  Mainstreaming the renewables  Analysis tool for Renewable Energy: RETScreen®  Financial and GHG Analysis with  RETScreen  Rural energy related issues and challenges  Visit to Solar Energy Centre  Demonstration site for gasifier based power plant at Yamuna Nagar, and waste to energy plant in Chandigarh  Overview of energy scenario in India and EC Act, 2001  Demand side management (DSM) including pricing, regulatory mechanism  Developing baseline for CDM projects  Energy efficiency and conservation in electrical systems  Visit to Tata BP solar plant in Bangalore  Visit to Mahatama Gandhi Rural Development Centre, Bangalore  Demonstration of portable instruments used for energy audit |
| G. Mode of evaluation of performance of the participants | Class Participation during the course; A short report or presentation from the participant summarizing the learning from the course |