Course 4- Applications of biotechnology and its regulation

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| A. Name of the Institute | The Energy and Resources Institute (TERI) |
| B. Name/Title of the Course | Applications of biotechnology and its regulation |
| 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]*  | **28-11-2016 16-12-2016 , 3 weeks**  |
| D. Eligibility Criteria for Participants1. Educational Qualifications2. Work Experience required, if any3. Age Limit*[note: ITEC norms is 25-45 years]*4. Target Group *[Level of participants and target ministries/departments etc. may be indicated]* | Bachelors; preferably Masters 2years 25-45 years 4) Both Governmental and Non governmental participants  |
| E. Aims & Objectives of the Course | Capacity enhancement of stakeholders from developing countries on different dimensions of biotechnology applications and regulations  |
| F. Course Contents / Syllabus *[please attach course details / profile in Word Format for uploading on ITEC website]* | * + - General overview: What is Biotechnology
		- Introducing traditional biotechnologies
		- In vitro method of cloning
		- Rooting of shoots
		- Biopesticides & Biofertilizer
		- Plant Tissue Culture in agriculture
		- Molecular Markers for DNA Fingerprinting and Molecular Breeding
		- Visit to Micro propagation Technology Park/Forestry, Fermentation R&D Centre
		- Human medical science
		- Livestock biotechnology
		- Regulatory guidelines
		- Visit to Pantnagar University, Supi agriculture farms
		- Biosafety
		- Bioinformatics
		- Biofuels
		- Visit to biofuel demo units, biopesticide pilot plant, bionanotechnology lab
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| 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  |