

Energy Science and Engineering higher education programmes in India

Universities that offer degrees in Energy

- Programmes ranging from Petroleum Engineering to Renewable Energy to Energy Systems Engineering
 - Mostly MTech/MSc, and PhD, some universities offer BTech/BE
- Universities that offer degrees in Energy
 - IIT Bombay
 - IIT Delhi
 - TERI University, New Delhi
 - Maulana Azad NIT, Bhopal
 - University of Petroleum and Energy Studies, Dehradun
 - Jharkhand University
 - Tezpur University
 - ...
 - Several private universities`

Energy – Possible modes for the BRICS NU

- Students
 - Summer/winter internships – 2 months
 - Semester exchanges (credit equivalents key)
 - Jointly guided PhD students
- Faculty exchanges – from 2 weeks to one semester
- Short specialized courses offered jointly over 1-2 weeks
- Research
 - Workshops on collaborative research/thematic areas
 - Clean coal, biofuels, renewables, gas to liquid fuels, storage, ...
 - Seed funding for initiation of collaborative research
 - Access to high-end research facilities
 - Annual conference (rotates through BRICS)

What is needed

- Allocated funding for most of the preceding items/modes
- Administrative support staff to enable and track progress of all these programs
- Similar international collaborative projects
 - Indo-UK projects on Solar PV and Energy Storage
 - Indo-US: SERIUS (\$5 million/year), ...
- Student and faculty exchange
 - MITACS Canada: \$5000 for 12 week internship per UG student
 - Faculty visit ~ \$3000 for a 2 week visit