



## **IUCEE Course for Engineering Students**

### **Introduction to Sustainability**

**by**

### **Mr. Niranjan Khatri**

This course will introduce SD -Sustainable Development to engineering students associated with IUCEE (Indo Universal Collaboration for Engineering Education).

The importance of SD has been emphasized globally and graphically represented below

(<https://www.un.org/sustainabledevelopment/sustainable-development-goals/>).

The goals emphasized in India are described at <https://unsdg.un.org/un-in-action/india>.

IUCEE has the mission of improving the quality of engineering graduates in India. A critical aspect of this is to guide the students to develop the skills of leadership and entrepreneurship needed to address the challenges facing society. A proper awareness of the SD Goals is necessary in order for students to understand and address these challenges.

The Course will be conducted as a series of biweekly online lectures, with assignments requiring students to reflect on the concepts presented. Teams of students will be given advise on how to explore practical approaches to several aspects of SD, including renewable energy, water, waste and disability. The Course will generate discussion on ecodesign, green buildings and ecotourism as well as an awareness of organizations creating jobs for people with disabilities in India and the recent migrant crisis resulting from Covid 19.

Mr. Niranjan Khatri has hands-on experience in SD through his trail blazing environmental initiatives as Manager at ITC Hotels. He has built on these experiences by working with various organization during the past several years. He is currently Head of Training Services, Bangalore Centre of Excellence of SCGJ (Green Jobs Skills Council) incorporated by Ministry of New & Renewable Energy & Indian Industry, under the aegis of Ministry of Skills Development & Entrepreneurship.

Niranjan is the Ex General Manager Environment Initiatives of ITC hotels and pioneered the concept of eco design in ITC Bay Island, Port Blair way back in the 1990s, when it was a novel concept. Since then, he has been associated with countless environmental and sustainability initiatives with hotels in India. He is advisor to Smarter Dharma, an organization which delivers sustainable solutions to some of the world's most complex challenges; providing organisations and governments with real-time decision-making capabilities for robust sustainable growth and managing risk.

Niranjan is the Founder of iSambhav, a sustainability training organization to drive sustainable change, He works with governments, businesses and institutions of learning to effect resource efficient mindset and behavioral change.

### **Schedule**

**Oct 23-** Genesis: My experience in how as a hotelier I got into Sustainable development without any knowledge on this vast subject. The catalyst: from whom did I pick up the sensitivities of the islands ecosystem and started with waste management leading to a circular economy.

**Nov 6** - Water crisis in an island with no rivers & no tanker water - converted crisis into an opportunity - water management. Understanding DSM -Demand Side Management & SSM- Supply Side Management.

**Nov 20** - Water (Part two) - understanding monsoon, water thirsty industries, different forms of RWH- rain water harvesting, STP water, Water Symbiotic relationship, ecological needs of nature.

**Dec 4** - Energy management: conventional and RE- renewable energy. Different sources .Climate change and mitigation strategies.

**Dec 20-** How to dovetail Planet, People & Profit in business enterprise- Basics of ESG- Environment Social Governance.

**ALL webinars will be at 7 pm IST**

**Fees:**

FREE for students of IUCEE Consortium Institutions (MUST be members of an IUCEE Student Chapter)  
Rs. 500 for students of NON Consortium Institutions.

**Link for Registration:**

All students MUST REGISTER INDIVIDUALLY

**Participants will be required to submit a Reflection Assignment based on each lecture:  
“On basis of what you have learnt today, please submit a brief assignment describing what will you do today, tomorrow and day after tomorrow. Fresh ideas of implementation will be welcome”**



**Niranjan Khatri – SDG’s & Capacity Building**

**A) CAPACITY BUILDING (CURRENT & PAST)**

- Currently Head of CVC Training Services Private Limited, Bangalore Centre of Excellence of SCGJ (Green Jobs Skills Council) incorporated by Ministry of New & Renewable Energy & Indian Industry, under the aegis of Ministry of Skills Development & Entrepreneurship.
- Ex Faculty of the Railway Staff College, Baroda and conducted 30 sessions on eco-designing for the senior management of the Indian Railways. Conducted sessions for many PSU’s /private sector companies and Karnataka Pollution Control Board / Power Finance Corporation, IIT’s, MDI, SP Jain & Chambers of commerce like CII, FICCI, PHD, FHRAI.

- Ex-board member of National Trust formed by Ministry of social justice GOI, to look at challenges of people with multiple disabilities. On the board of Sarthak an organization creating jobs for people with disabilities in India.
- Headed the Confederation of Indian Industry's (CII) Renewable Energy Cell for a year during the period 1996 to 1997. Developed the eco-rating for schools for the Delhi Government which has been distributed to over 1200 schools, translated into Marathi & further distributed to 6000 schools in Maharashtra. Ex member of the CII National Water Committee and Waste Management Committee.

**B) CORPORATE EXPERIENCE (PAST)**

- Ex General Manager Environment Initiatives of ITC hotels. Pioneered the concept of eco designing in ITC Bay Island in Port Blair during the period 1988 to 1992. Submitted a paper to ILO/ CORNELL UNIVERSITY on eco design in 1994. Played pioneering role in Green Buildings movement in India, with ITC's Gurgaon facility being the World's 1<sup>st</sup>, Large Building, to receive LEED Platinum rating.
- Ex Chairperson of the Sustainable Development Committee of the Federation of Hotels and Restaurants Association of India-Western Region.
- Founding committee member of ESOI (Ecotourism society of India). Founder and ex-president of Andaman & Nicobar tourism guild 1990 to 1992.
- Part of the expert committee of IICA- Indian Institute of corporate affairs, formed by Ministry of corporate affairs

**C) AWARDS**

- Recipient of the Helen Keller Award in 2006 & in 2011; Karamveer Puraskar 2009; Green Hotelier award 2010 & Parivartan Sustainability Leadership Award 2012.

