ENVIRONMENTAL & RESOURCE ECONOMICS

PROF. SABUJ KUMAR MANDAL Department of Humanities and Social Sciences IITM

TYPE OF COURSE : New | Elective | UG | PG

COURSE DURATION : 12 weeks (26-Jul' 21 - 15-Oct' 21)

EXAM DATE : 23 Oct 2021

PRE-REQUISITES : Principles of economics/microeconomics

INTENDED AUDIENCE : Anyone interested to understand the issues related environmental degradation and policy making

INDUSTRIES APPLICABLE TO : Manufacturing, Oil & Gas, Mining

COURSE OUTLINE :
This course is designed to guide students through the frontier areas of environmental economics. We begin by studying interaction between economy and the environment. Then we try to understand the welfare implication of national income and discuss the issues of sustainable development. We examine the impact of economic growth on environmental degradation.

ABOUT INSTRUCTOR :
Dr. Sabuj Kumar Mandal is currently working as an Assistant Professor in the Department of Humanities and Social Sciences, Indian Institute of Technology Madras (IITM), Chennai. He completed his B.Sc (Economics) from the Scottish Church College Kolkata (1999-2002) and M.Sc (Economics) from the University of Calcutta with a specialization in Econometrics. He completed his doctoral degree in economics from the Institute for Social and Economic Change, Bangalore.

COURSE PLAN :
Module 1: Interaction between economy and the environment
Module 2: Welfare implication of national income and sustainable development
Module 3: Economic growth and environmental degradation: Environmental Kuznets Curve (EKC) hypothesis
Module 4: Externalities and market failure
Module 5: Incentive design
Module 6: Environmental regulation and competitiveness
Module 7: Environmental efficiency and cost of pollution control
Module 8: Theory and methods for environmental valuation
Module 9: Optimal extraction of renewable and non-renewable resources