ENVIROMENTAL AND ENERGY SUSTAINABILITY: CHALLENGES AND OPPORTUNITIES FOR THE 21ST CENTURY

Course Outline:

- The concept of sustainability
- Population trends
- Earth's Environmental Degradation
- Waste Generation and Waste Management
- Air Quality
- Water Resources
- Fossil Energy Sources
- Renewable Energy
- Environmental Initiatives and Policies
- Green Industry and Carbon Footprints

The course objectives are to:

- Teach the students the fundamental concepts of sustainability through selected real-world examples
- Instill and develop environmental awareness
- Encourage critical thinking so as to recognize and act on sustainability issues

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The course will be taught by Zoltan C. Mester who received his Ph. D. in chemistry at the Massachusetts Institute of Technology and MS in chemical engineering at the Technical University of Budapest. Dr. Mester has over 35 years of industrial, academic and consulting experience in environmental sciences and engineering, industrial processes, and statistical experimental designs. He is a Lecturer at the University of California, Irvine, regular speaker at the University of Southern California and at national and international conferences. He is the author of over 50 professional publications and has his name on 4 US patents. Dr. Mester is an environmental and energy consultant for 11 years, previous work background includes scientific and managerial positions at major oil companies and environmental firms.