Mindluster Platform

About the course Hydrogen energy technology and economics

Course Presenter : IIT Roorkee July 2018

Discover the transformative potential of hydrogen energy technology and its critical role in shaping a sustainable future. This comprehensive online course offers in-depth insights into the engineering principles, economic considerations, and innovative applications of hydrogen energy. Designed for professionals seeking to enhance their expertise, this training course provides valuable knowledge to support career growth in the rapidly evolving energy sector. Throughout this course, you will learn to understand the fundamentals of hydrogen production, storage, and utilization. You will explore the economic factors influencing hydrogen energy deployment, including cost analysis and market trends. Additionally, the course covers safety standards, technological advancements, and the integration of hydrogen solutions within existing energy infrastructures. What you will learn: - Core engineering concepts behind hydrogen energy systems - Economic analysis and market dynamics of hydrogen technology - Safety protocols and environmental impacts - Latest innovations and future trends in hydrogen energy - Practical applications in renewable energy and industrial sectors - Strategies for implementing hydrogen projects effectively This course is ideal for energy engineers, project managers, environmental specialists, and professionals involved in renewable energy, infrastructure development, and sustainable technologies. Whether you are aiming to expand your professional skills or seeking to stay ahead in the energy industry, this training course offers the essential knowledge needed for success. Why choose this course on our platform: - Expert-led online training with industry-relevant content - Flexible learning schedule tailored for working professionals - Access to comprehensive resources and practical case studies - A certified course that enhances your professional profile - Opportunities for networking with industry experts and peers Career opportunities abound for those with expertise in hydrogen energy technology, including roles in project management, consulting, research, and development within the Middle East and globally. This course equips you with the skills to contribute to innovative energy solutions and sustainable development initiatives. Upon completion, you will receive a professional certificate that validates your knowledge and skills in hydrogen energy technology and economics. Elevate your career and position yourself as a leader in the renewable energy sector with this trusted, certified online training course. IIT Roorkee July 2018

Engineering Category's Courses

Course Lesson(62)

Lesson 1 :
Hydrogen Energy Technology and Economics promo video by Prof Pratham Arora Prof Amit Bhosale

Lesson 2 : **Lec 01 Introduction**

Lesson 3 : **Lec 02 Challenges with Fossil Fuels**

Lesson 4 : **Lec 03 Renewable Energy and hydrogen**

Lesson 5 : **Lec 04 Energy Consumption in Different Countries**

Lesson 6 : **Lec 05 Energy Consumption in Different Sectors**

Lesson 7 : **Lec 06 Economic Modelling**

Lesson 8 : **Lec 07 The Current Market for Hydrogen**

Lesson 9 : **Lec 08 The Current Market for Hydrogen II**

Lesson 10 : **Lec 09 Hydrogen Production from Fossil Fuels**

Lesson 11 : **Lec 10 Hydrogen Production from Fossil Fuels II**

Lesson 12 : **Lec 11 The Cost of Hydrogen Production from Fossil Fuels**

Lesson 13 : **Lec 12 The Cost of Hydrogen Production from Fossil Fuels II**

Lesson 14 : **Lec 13 Carbon Capture from Fossil Fuel based Hydrogen**

Lesson 15 : **Lec 14 The Production of Hydrogen from Renewable Sources**

Lesson 16 : **Lec 15 The Economics of Hydrogen Production by Electrolysis**

Lesson 17 : **Lec 16 Hydrogen Production from Biomass**

Lesson 18 : **Lec 17 Economics of Hydrogen Production from Biomass**

Lesson 19 : **Lec 18 Biomass Lab**

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