

Renewable Energy Technologies in the Arab Region

Welcome to the online course on renewable energy technologies in the Arab region

Dear Participants,

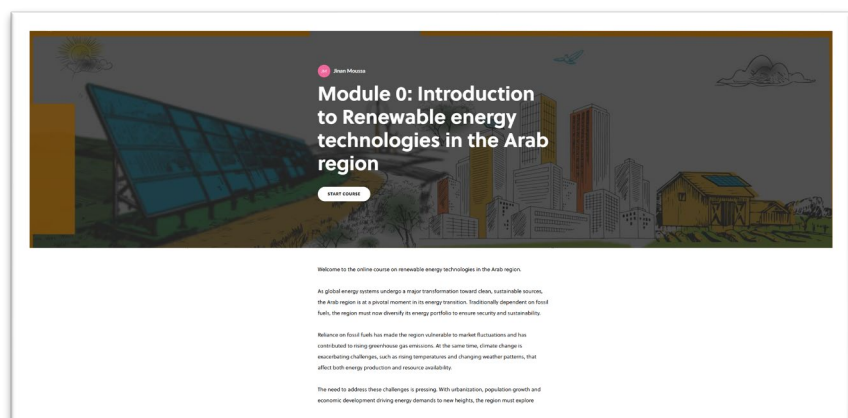
This online course will provide you with the knowledge, skills and entrepreneurial mindset needed to implement and promote sustainable renewable energy technologies in your communities. Through this course, you will gain practical insights into clean energy solutions that support sustainable development and energy transition across the Arab region.

Required Activities

You will need to complete the following **required activities**:

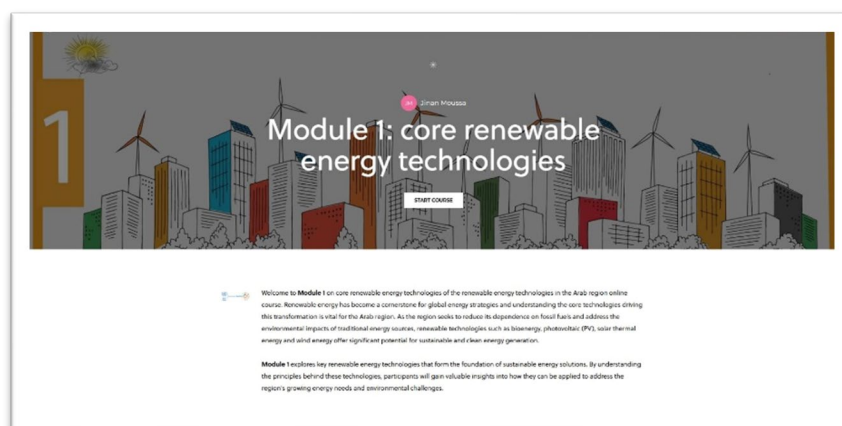
1- Module 0: Introduction to renewable energy technologies

You will gain an overview of the renewable energy landscape in the Arab region and understand the structure and goals of the course.



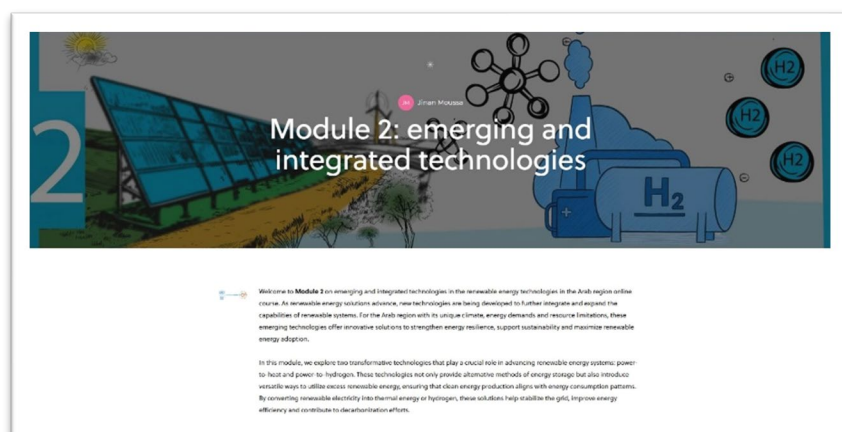
2- Module 1: Core renewable energy technologies

You will explore key renewable energy sources including bioenergy, solar photovoltaics, solar thermal and wind energy, along with their respective business models.



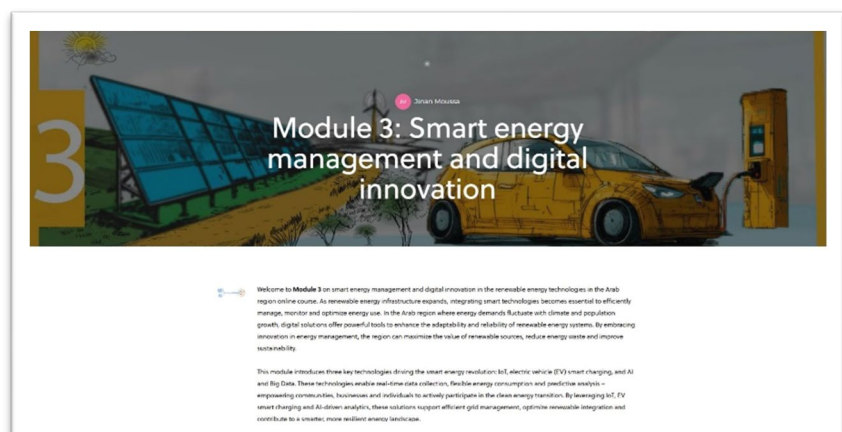
3- Module 2: Emerging and integrated technologies

You will learn about innovative technologies like power-to-heat and power-to-hydrogen and their integration into the energy system.



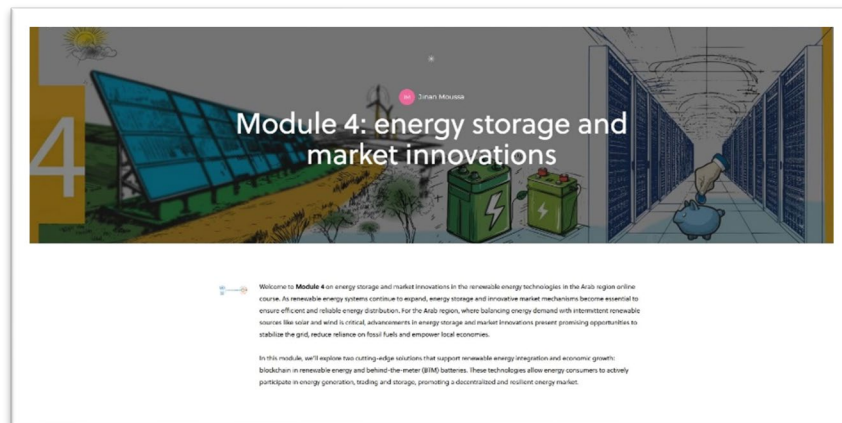
4- Module 3: Smart energy management and digital innovation

This module will cover the use of Internet of Things (IoT), smart electric vehicle charging, and artificial intelligence and Big Data in energy systems.



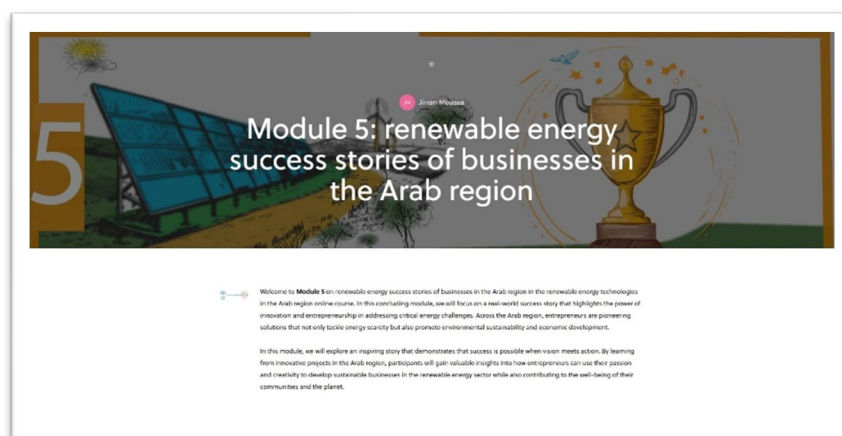
5- Module 4: Energy storage and market innovations

You will examine energy storage technologies, such as behind-the-meter batteries, and explore how blockchain is transforming energy trading and certification.



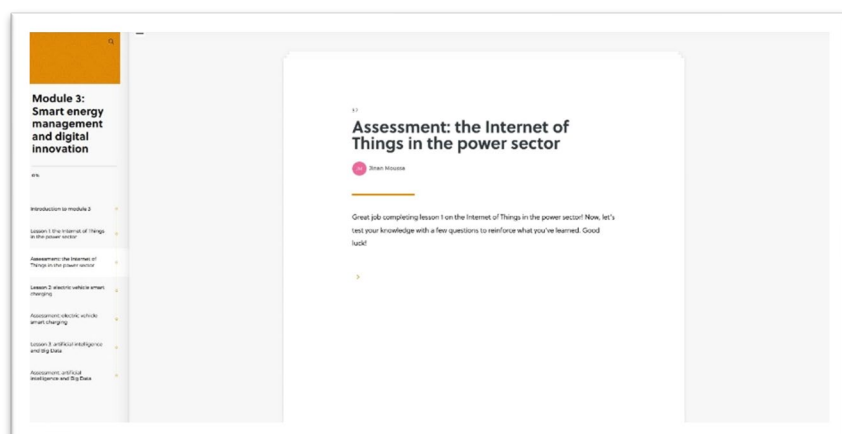
6- Module 5: Renewable energy success stories of businesses in the Arab region

This module will showcase real-world success stories of businesses in the Arab region that have successfully adopted renewable energy. It highlights the impact of renewable energy on growth, sustainability and local development.



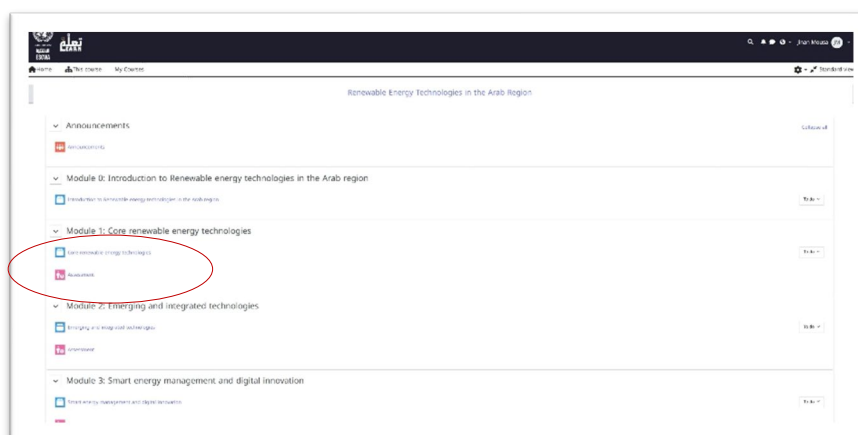
7- Lesson-specific assessments within each module

Each lesson in each module includes a short assessment to evaluate your understanding of the material covered.



7- Final assessment for each module

At the end of each module, you will complete a final quiz to consolidate your learning and receive a certificate for that module.



8- Course final assessment

At the end of the course, you will complete a final comprehensive assessment to obtain your course completion certificate.

