

Course Description Template: Readings in Energy

1. Educational Institution: Warith Al-Anbiaa University
2. Academic Department/Center: College of Administration and Economics/Department of Oil and Gas Economics
3. Course Name/Code: Readings in Energy
4. Available Attendance Formats: Weekly
5. Semester/Year: Semester-based
6. Total Credit Hours: 30 hours
7. Date of Preparation: March 1, 2026
8. Course Objectives: To familiarize students with energy and its sources in both Arabic and English.

This course description provides a concise summary of the most important course characteristics and expected learning outcomes for the student, ensuring that they make the most of the available learning opportunities and linking them to the program description. Page 2. 9. Course Outcomes, Teaching and Learning Methods, and Assessment

Course Outcomes

A. Cognitive Aspect: Recalling or understanding information and developing mental abilities and skills. This area is the most important for many test development processes, through the student acquiring basic skills according to a sophisticated scientific methodology that enables them to follow up on resources.

B. Skill Aspect: The student should achieve the ability to understand the risks of high concentration of bioenergy supplies, especially in refining and processing. Then, to organize by establishing reciprocal relationships between values and the student's ability, for example, to conduct a seminar and review what they have learned correctly.

Teaching and Learning Methods

1. Lectures, utilizing the internet. Utilizing modern presentation methods provided by Al-Warith University

-2 Brainstorming

-3 Cooperative Learning

Assessment Methods

1- Examinations of all types

2 -Preparation

3- Participation during lectures

4- Ability and willingness to complete assigned assignments

C- Affective and Value-Based Objectives

1- Enhancing student attention during lectures

2-Active and effective responses that go beyond mere attention

D- General and Transferable Skills (Other skills related to employability and personal development)

1- Verbal Communication

2-Teamwork

3-Inference

4- Connection to the content (Page 3)

10. Course Structure

Week

Hours

Required Learning Outcomes

Unit Name / or Topic

Teaching Method

Assessment Method

Added Learning Outcomes

Introduction to the Concept of Energy

Multidimensional

-1 Lectures

-2 Homework

-3 Brainstorming

-1 Examinations Types of Activities

-2 Completing Assignments

-3 Attendance

3 2 Adding Learning Outcomes - Foundations of the Importance of Energy

- Energy Systems

- Energy Economics

-1 Lectures

-2 Homework

-3 Brainstorming

-1 Exams of Various Types

-2 Completing Assignments

-3 Attendance

3 3 Adding Learning Outcomes - Understanding Energy Sources

- Types

- Stages of Oil and Gas Extraction

-1 Lectures

-2 Homework

-3 Brainstorming

-1 Exams of Various Types

-2 Completing Assignments

-3 Attendance

3 4 Adding Learning Outcomes - A Future Outlook for Energy and its Sources in the World

- Global Energy Demand and Needs Forecasts

-1 Lectures

-2 Homework

-3 Cooperative Learning

-1 Exams of Various Types

-2 Completing Assignments

-3 Attendance

3 5 Adding Learning Outcomes - Hydrocarbon Energy Sources

- Alternative Energy Sources

-1 Lectures

-2 Homework

-3 Brainstorming

-1 Exams of various types

-2 Completing assignments

-3 Attendance

3 6 Add Learning Outcomes - Future expectations for the future of traditional and renewable energy sources

-1 Lectures

-2 Homework

-3 Brainstorming

-1 Exams of various types

-2 Completing assignments

-3 Attendance

3 7 Add Learning Outcomes First monthly exam Recalling what the student has learned

Exams of various types

3 8 Add Learning Outcomes - Air pollution and its impact on public health

-1 Lectures

-2 Homework

-3 Brainstorming

-1 Exams of various types

-2 Completing assignments

-3 Attendance

3 9 Add Learning Outcomes - The impact of the energy field In the context of employment:

- 1 Lectures
- 2 Homework
- 3 Brainstorming
- 1 Exams of various types
- 2 Completing assignments
- 3 Attendance

3.10 Adding Learning Outcomes - Energy Efficiency

- 1 Lectures
- 2 Homework
- 3 Brainstorming
- 1 Exams of various types
- 2 Completing assignments
- 3 Attendance Page 4

Expanding and diversifying the curriculum within the permitted limits

5%

3.11 Add Learning Outcomes: Second Monthly Exam - 1. Exams of all types

- 2. Completing assignments
- 3. Attendance

3.12 Add Learning Outcomes: Clean Electricity - 1. Lectures

2. Homework

3. Cooperative Learning

- 1. Exams of all types
- 2. Completing assignments
- 3. Attendance

3.13 Add Learning Outcomes: Reducing Energy Use Associated with Methane Pollution

1. Lectures

2. Homework

3. Teaching Strategies

1. Exams of all types

2. Completing assignments

3. Attendance

3.14 Add Learning Outcomes: Increasing the Production of Low-Effective Fuels

1. Lectures

2. Homework

3. Brainstorming

1. Exams of all types

2. Completing assignments

3. Attendance

3.15 Final Exam Chapter: Recalling What the Student Has Studied

- 1 Exams of all types

- 2 Completing Assignments

- 3 Attendance

11. Infrastructure

- 1- Required Textbooks

- 2- Main References (Sources) - Energy Economics Booklet, College of Administration and Economics, Al-Mustansiriya University.

- World Energy Outlook 2025

- Energy Economics I, Institute of Chartered Economics

- a- Recommended Books and References (Scientific Journals, Reports, etc.)

- Oil Economics, Dr. M. Azhar Al-Sammak

- Many reports in journals such as Al-Eqtisadi, Energy Economics, Oil and Gas, United Nations Publications

b- Electronic References, Websites... Google and other search engines contain everything related to energy and its sources (Energy, sources, analysis of supply and demand, etc.).

Teacher

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