**Course Description Form**

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| 1. Course Name:
 |
| **Fossil energy** |
| 1. Course Code:
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|  |
| 1. Semester / Year:
 |
| **Semester : 2023/2024** |
| 1. Description Preparation Date:
 |
| **28/ 3/ 2024** |
| 1. Available Attendance Forms:
 |
| **Attendance only** |
| 1. Number of Credit Hours (Total) / Number of Units (Total)
 |
| **The number of units is (2) , the total number of weeks is (15)** |
| 1. Course administrator's name (mention all, if more than one name)
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| **Adnan Habeeb Arooj AL- Hamedi** |
| 1. Course Objectives
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| **Course Objectives** | * **Introducing students to the importance of fossil energy .**
* **Study the economic impacts of fossil energy .**
* **Preserving available wealth and resources and maximizing economic .**
* **Addressing climate change resulting from the use of fossil fuels .**
* **Sustaining the economic development process .**
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| 1. Teaching and Learning Strategies
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| **Strategy** | **Using clean energy at reduced prices and with economic benefits that lead to the success of economic development plant .** |
| 1. Course Structure
 |
| **Week**  | **Hours**  | **Required Learning Outcomes**  | **Unit or subject name**  | **Learning method**  | **Evaluation method**  |
| 1 | 2 | Two hours in week | What is fossil energy and how was it formed |  |  |
| 2 | 2 | Two hours in week | Origins and types of fossil energy > |  |  |
| 3 | 2 | Two hours in week | Fossil energy problems |  |  |
| 4 | 2 | Two hours in week | Crude oil and methods of extracting it . |  |  |
| 5 | 2 | Two hours in week | First monthly exam |  |  |
| 6 | 2 | Two hours in week | Crude oil derivatives . |  |  |
| 7 | 2 | Two hours in week | Coal how it is formed and methods of producing it . |  |  |
| 8 | 2 | Two hours in week | Reserves and markets for conventional fossil fuels . |  |  |
| 9 | 2 | Two hours in week | Unconventional oil . |  |  |
| 10 | 2 | Two hours in week | Unconventional oil reserves and production . |  |  |
| 11 | 2 | Two hours in week | Registration of natural gas and coal . |  |  |
| 12 | 2 | Two hours in week | Application examples |  |  |
| 13 | 2 | Two hours in week | Unconventional gas . |  |  |
| 14 | 2 | Two hours in week | Unconventional gas reserves and production . |  |  |
| 15 | 2 | Two hours in week | The use of fossil energy on the environment . |  |  |
| 1. Course Evaluation
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| Exams: **40** Degree. , Participation:**5** Degree , Attendance: **5** Degree , Total : **50** degree |
| 1. Learning and Teaching Resources
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| Required textbooks (curricular books, if any) | **Alternative energy sources book , Author Shawhan , 2007.** |
| Main references (sources) | **Fossil fuel book , Author , Ahmed shafiq AL-lhatib , 2002**  |
| Electronic References, Websites | **Book on the occurrence of fossil coal and hydrocarbons , Author ,Carl Friedrich , 1984** |