**Course Description Form**

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| 1. Course Name: | | | | | | | | |
| **Fossil energy** | | | | | | | | |
| 1. Course Code: | | | | | | | | |
|  | | | | | | | | |
| 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) | | | | | | | | |
| **Adnan Habeeb Arooj AL- Hamedi** | | | | | | | | |
| 1. Course Objectives | | | | | | | | |
| **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 .** | | | | |
| 1. Teaching and Learning Strategies | | | | | | | | |
| **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 | | | | | | | | |
| Exams: **40** Degree. , Participation:**5** Degree , Attendance: **5** Degree ,  Total : **50** degree | | | | | | | | |
| 1. Learning and Teaching Resources | | | | | | | | |
| 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** | | | |