

**Scientific plan and faculty research for the Department
of Chemical Industries Technologies**
For the academic year (2024-2025)
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1- Faculty research

| End date | Start date | Teacher's name | Research title | |
|------------|------------|--------------------|---|----|
| 31/08/2025 | 1/9/2024 | Azhar ahmed abed | Study the effect of changing salt concentrations on physical properties (viscosity - specific volume) | -1 |
| 31/08/2025 | 1/9/2024 | Amjad Ahmed Jassim | Experimental study of nanomaterials and their effect on heat transfer in heat exchanger. | -2 |

2- Study seminars for teachers

| Venue | Episode history | Teacher's name | Episode title | |
|--------------------------------|-----------------|--------------------|--|----|
| Chemical Industries Department | 13/10/2024 | Azhar ahmed abed | Introducing the instructor to .prepare the educational bag | -1 |
| Chemical Industries Department | 10/11/2024 | Amjad Ahmed Jassim | Using modern tools in education such as artificial intelligence and augmented reality. | -2 |

3- Scientific developments presentation sessions

| Venue | Episode history | Teacher's name | Episode title | |
|--------------------------------|-----------------|--------------------|--|----|
| Chemical Industries Department | 15/4/2025 | Azhar ahmed abed | Using renewable energies as alternatives to traditional .materials | -1 |
| Chemical Industries Department | 28/11/2024 | Amjad Ahmed Jassim | Developments in solar energy .technologies | -2 |

4- Student activities

| Student activities | | | | | | | |
|--------------------|------------------|-------------|--------------------|---------------------|------------------|---------------------|----------------------------|
| Sports activities | | Exhibitions | | Cultural activities | | Artistic activities | |
| Its history | Type of activity | Its history | Type of activity | Its history | Type of activity | Its history | Type of activity |
| 13/03/2025 | Football | 13/03/2025 | Science exhibition | 10/04/2025 | Cultural debate | 7/11/2024 | Getting to know each other |
| 19/03/2025 | Volleyball | 13/03/2025 | Art exhibition | 20/04/2025 | Poetry match | 13/03/2025 | Science exhibition |

5- (A) Continuing education courses.

| Course date | Course title | |
|-------------------------------|--|----|
| From 23/2/2025 to 27/2/2025 | The effect of insulating materials on heat .transfer | -1 |
| From 21/9/2025 to 25/9/2025 | Design and analysis of deep cooling thermal .systems | -2 |
| From 23/11/2025 to 27/11/2025 | Wastewater and sewage treatment .technologies | -3 |

5- (B) Workshops

| Its history | Instructor's name | Workshop topic | Section | |
|-------------|--------------------|---|--------------------------------|---|
| 9/1/2025 | Azhar ahmed abed | Introducing members to the mechanism for calculating evaluation scores and the documentation required for the .evaluation | Chemical Industries Department | 1 |
| 23/4/2025 | Amjad Ahmed Jassim | Understanding the working mechanism of internal combustion engines and studying their modern applications in automobiles, heavy machinery, and industrial .vehicles | Chemical Industries Department | 2 |

6- Science Film Shows:-

| Beneficiary class | Display date | Movie title | |
|-------------------|-----------------|---|----|
| the first | During lectures | Educational videos about fluid flow and separation devices used in the chemical .industry | -1 |
| the second | During lectures | Educational videos about heat transfer devices and material separation devices used in the chemical and petroleum .industries | -2 |

7- Scientific visits

| stage | Date of visit | Place of visit | Section | |
|------------|---------------|------------------------------------|--------------------------------|---|
| the second | 4/3/2025 | Al-Kronji Beverage Factory | Chemical Industries Department | 1 |
| the first | 15/5/2025 | Al-Hadi Plastic Industries Company | Chemical Industries Department | 2 |

8- Study sessions for students

| Episode history | Supervisor name | Number of students | Episode title | |
|-----------------|--------------------|--------------------|---|----|
| 5/12/2024 | Azhar ahmed abed | 2 | Introducing students to exam rules and instructions | -1 |
| 6/11/2025 | Amjad Ahmed Jassim | 2 | How to write a CV and prepare for .job interviews | -2 |

9-Student research

| Completion date | Supervisor name | Number of students | Search title | |
|-----------------|--------------------|--------------------|---|---|
| 2/3/2025 | Azhar ahmed abed | 5 | The effect of solar radiation direction .on the efficiency of solar cells | 1 |
| 2/3/2025 | Amjad Ahmed Jassim | 5 | Study the impact of chemicals used in water treatment on the environment. | 2 |

10- Scientific reports

| Number of reports | Scientific Section |
|-------------------|--------------------------------|
| 94 | Chemical industry technologies |

11- Development studies

| Study history | assigned to it | Study title | Section | |
|---------------|----------------|-------------|--------------------------------|---|
| | | nothing | Chemical industry technologies | 1 |

12- Participation in training courses

| Participation in training courses | |
|--|--|
| <p>- It is centralized and through the scientific division and according to the nomination of the scientific department, especially for those members who are entitled to a job promotion.</p> <p>- It is necessary for each instructor to participate in at least one development course annually as a lecturer, as stated in the instructor evaluation form.</p> | |

13- Scientific seminars

| Beneficiary class | Symposium date | Symposium topic | Instructor's name | Section | |
|-------------------|----------------|--|--------------------|--------------------------------|---|
| the second | 20/3/2025 | Adherence to laboratory controls to reduce accidents | Azhar ahmed abed | Chemical industry technologies | 1 |
| the second | 12/5/2025 | Challenges facing the petrochemical industry in light of the shift towards .renewable energy sources | Amjad Ahmed Jassim | Chemical industry technologies | 2 |

14- Educational seminars.

| Beneficiary class | Symposium date | Symposium topic | Instructor's name | Section | |
|-------------------|----------------|---|--|--------------------------------|---|
| the second | 22/9/2024 | University instructions | Azhar ahmed abed | Chemical industry technologies | 1 |
| the first | 5/01/2025 | Exam instructions | Azhar ahmed abed | Chemical industry technologies | 2 |
| the second | 12/05/2025 | Summer training instructions | Amjad Ahmed Jassim | Chemical industry technologies | 3 |
| the first | 09/06/2025 | Student Discipline Instructions | Amjad Ahmed Jassim | Chemical industry technologies | 4 |
| The second | 10/03/2025 | Discussion of graduation projects for the academic year 2024-2025, Part One: Objective and Theoretical Aspect | Azhar ahmed abed Amjad Ahmed Jassim | Chemical industry technologies | 5 |

15- Scheduled class hours

| Total number of hours | | | | |
|-----------------------|--|--|--------------------------------|---|
| Grand total | Level 1 (Course System) | Level 1 (Course System) | Section | |
| | Number of hours included in the department's study plan × number of sections | Number of hours included in the department's study plan × number of sections | | |
| 248 | 126=2×63 | 122 =2×61 | Chemical industry technologies | 1 |