



## السيرة الاكاديمية

### المعلومات الشخصية:

الاسم الرباعي و اللقب: محمد فاضل عبد علي الجميلي

مكان العمل الرسمي السابق: قسم الهندسة الكيميائية | الجامعة التكنولوجية

الحالة الوظيفية: متقاعد من الجامعة التكنولوجية منذ 2018\7\1

الحالة الوظيفية الحالية: متعين في جامعة التراث منذ 2022\3\1  
المنصب الحالي: عميد كلية الهندسة | جامعة التراث

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### الاهتمامات البحثية:

\* هندسة التفاعلات الكيميائية (Chemical Reaction Engineering)

\* ازالة السموم من المياه باستخدام الكيمياء الضوئية والاعشبية

(Removal of Toxic Compounds from Wastewater by Photochemistry and Membrane Technology)

## الشهادات:

التاريخ	التخصص العام	الشهادة	الجهة المانحة	عنوان الاطروحة/ المشروع
1976\6\30	هندسة كيميائية	بكلوريوس	جامعة بغداد	تصميم وحدة التقطير الجوي للنفط الخام
1989\9\19	هندسة كيميائية	ماجستير	الجامعة التكنولوجية	نمذجة و تصميم نظام الكروماتوغرافياالمستمر ذو الطبقة المتحركة
2002\8\14	هندسة كيميائية	دكتوراة	الجامعة التكنولوجية	اعداد نموذج رياضي و قياسات تجريبية لوعاء التفاعل الكيميائي ذو الطبقة الساقطة

## الخبرات الاكاديمية:

### 1- الدراسة الاولى

\* تدريس اوعية التفاعلات الكيميائية / المرحلة الثالثة /الهندسة الكيميائية

### 2- الدراسات العليا

\* تدريس الماجستير/فرع العمليات الكيميائية/الجامعة التكنولوجية اوعية التفاعلات الكيميائية

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\* تدريس الدكتوراه/الجامعة التكنولوجية: تصميم مفاعل كيميائي متقدم

\* تدريس دبلوم عالي/وزارة النفط: اوعية التفاعلات الكيميائية متعددة الاطوار

## الجمعيات والنقابات

\* نقابة المهندسين العراقية

\* جمعية المهندسين العراقية

## التكريمات وأوسمة الشرف

\* عدد من كتب الشكر والتقدير من معالي السيد الوزير والسيد رئيس الجامعة التكنولوجية والسيد رئيس القسم المحترمون خلال سنوات الخدمة الجامعية وعدد من الشهادات التقديرية من معالي الوزير والسيد رئيس الجامعة

المهارات:(اللغات والحاسبة)

\* العربية والانكليزي

Microsoft Word, Excel, PowerPoint\*

الإشراف على طلبة الدراسات العليا

- 1- Dema, H.K.,(2006) Mass Transfer and Hydrodynamics in Impinging Jet Bubble Column, MSc. University of Technology.
- 2- Muhsen, H.A.(2007) Liquid Dispersion in Bubble Column Using Air-Water System, MSc. University of Technology.
- 3- Abdulla, H.M.(2008) Hydrodynamics of Two Phase Flow for Coalescing and Noncoalescing Systems, MSc. University of Technology.
- 4- Toma, F.S. (2008) Scale Effects on the Hydrodynamics of Bubble Column, MSc. University of Technology.
- 5- Mahmmod A.A. (2009) Hydrodynamics Characteristics of a Gas-Liquid-Solid Fluidized Bed Containing a Binary Mixture of Particles, MSc. University of Technology.
- 6- Hadi A. A.(2010) Hydrodynamic Effects of Foam Control in Three Phase Bubble Column, University of Technology.
- 7- Muhssen A. A. (2011) Dye Removal from Wastewater using Membrane Technology, MSc. University of Technology.
- 8- Ahmed, L.S. (2012) Hydrodynamic and Kinetic Study of Phenol Removal from Wastewater in a Trickle Bed Reactor, MSc. University of Technology.
- 9- Hamza, N. H., (2013) Removal of Methyl Violet Dye from Wastewater Using combined Solar Photocatalysis-Membrane Separation Technology, MSc. University of Technology.
- 10- Hussein, H., (2013) Hydrodynamic and Kinetic Study in an Ebullated Bed Reactor for H-Oil Unit, MSc. University of Technology.
- 11- Faleh, A., (2014) Experimental Study for Removal of Harmful Organics from Refinery Wastewater using Photocatalytic Reactor, MSc. University of Technology.

- 12- Adnan, L., (2014) Experimental and Analysis Study of Catalytic Oxidation Process for Treatment of Wastewater from Petroleum Refinery, MSc. University of Technology.
- 13- Khalid, M., (2015) Experimental Study on Catalyst Deactivation by Nitrogen Compounds in Hydrprocessing reactors, MSc. University of Technology.
- 14- Hamed, W., (2016) studying the performance of a hydrotreating process for a mixture of gas oil and Lighter fractions, MSc. University of Technology
- 15- Aziz, M., (2017) Desulfurization of Gas Oil using Highly Active Unsupported Catalyst, MSc. University of Technology.
- 16- Jasim, D., (2019) CO<sub>2</sub> capture, PhD. University of Technology.
- 17- Abid-Zaid, S. (2020) Feasibility study on kerosene desulfurization processes: experimental and analysis study, MSc. University of Technology
- 18- Mohammed, S. (2020) Study on performance of asphaltic pavement for purification of the continuous flow of pollutant air, MSc. University of Technology
- 19- Saaran, M. (2022) Iraqi clays as sorbent material for organic pollutant compounds in wastewater of oil refineries, MSc. University of Technology. .
- 21- Dawood, R. (2022) Study of improving various photocatalysts for degradation of toxic organics from wastewater using solar reactor, MSc. University of Technology.
- 22- Subhan, A. (2024). Experimental Study and Modeling of the Synergistic Effect of Adsorption and Photocatalysis, MSc. University of Technology.
- 23- Hamza, N. (2024). Experimental and Analysis Study on an Electrochemical- Photocatalysis Process for Removal of Toxins in Wastewater, PhD. University of Technology.
- 24- Hameed. K. (2025). Comparative Study of Homogeneous and Heterogeneous Processes for Degradation of Toxic Organics in Petroleum Refinery Wastewater by Utilization of a Simulated Solar Light, MSc. University of Technology.

- 1- Safa A. Abdulla, Isam K. Halabia, **Mohammad F. Abid** "Modeling of a Sulfonation Reactor in Detergent Plant", *IRAQI JOURNAL OF CHEMICAL AND PETROLEUM ENGINEERING*, 2002, Vol. 3, September, 45-53.
- 2- **Mohammad F. Abid**, Safa A. Abdulla, Isam K. Halabia "Modeling and Experimental Measurements in a Falling Film Reactor", *Tikrit journal of Engineering sciences*, Vol.12, No.2, (48-81), May (2005)
- 3- **Mohammad F. Abid** "A Modified Correlation to Evaluate Liquid Mass Transfer Coefficient in an Impinging – Jet Tall Bubble Columns" , *Tikrit journal of Eng. Science*, Vol.13 , No.3 , (54-77), October 2006
- 4- **Mohammad F. Abid**, Hythem K. Demah "Study of Hydrodynamics and Mass Transfer in Impinging-Jet Bubble Column" , *Tikrit journal of Eng. Sciences*, Vol.14, No.2, (102-135), June (2007)
- 5- **Mohammad F. Abid** "Stability analysis in a Falling Film Reactor" *Tikrit journal of Eng. Sciences*, Vol.15, No.1, (1-16), March (2008).
- 6- **Mohammad F. Abid**, Hayder M. Abdul-Karim "Experimental Study of Liquid Dispersion in Bubble Column" *Diyala Journal of Engineering Sciences*, Vol. 1, No.1, December 2008.
- 7- **Mohammad F. Abid**, Areej Delef "Experimental Study of Foaming Control in a Hydrocracking Reactor" *Tikrit Journal of Eng. Sciences*, Vol.16, No.1, (90-110), March (2009).
- 8- **Mohammad F. Abid**, Shakir M. Ahmed, Hussein M. Salih "Mathematical Analysis of Ozonation Process in Bubble Column" delivered as a research, published in the proceedings of the sixth Engineering Conference /College of Engineering, 5-7 April 2009
- 9- **Mohammad F. Abid**, Farah S. Jameel "Scale Effects on the Hydrodynamics of Bubble Column" *Eng. & Tech. Journal*. Vol. 27, No. 10, 2009
- 10- Adiba A. Mahmmud, Amer A. Abdul-Rehman, **Mohammad F. Abid** "Hydrodynamic characteristics of a gas-liquid-solid fluidized bed containing a binary mixture of particles" *Eng. & Tech. Journal*. Vol. 27, No. 12, 2009
- 11- **Mohammad F. Abid**, Saadi K. Nasri, Qusay F. Al-Sallehy, Samera N. Abdulla, Kalid T. Rashid "Desalination of Iraqi Brackish Water by Nanofiltration Membrane" *Desalination and Wastewater Treatment Journal*, Vol. 29(2011)174-180.
- 12- **Mohammad F. Abid**, Atheel K. Jabir, Saad A. Faiq "Modeling of Dissolved Oxygen Profile in Slurry Bioreactor" *Nahrain University, College of Engineering Journal*, 14(2), 177-188, 2011.

13- **Mohammad F. Abid**, Orooba N. Abdulla, Kamal M. Ahmed "Experimental study of simultaneous heat and mass transfer in Falling film and bubble mode absorbers" *Petroleum Science and Technology Journal*, Taylor and Francis Group, vol. 30, 467-477, 2012

14- **Mohammad F. Abid**, Ahmed Hadi, Shakir M. Ahmed "Hydrodynamic Characteristics Effect of Foam Control in a Three Phase Fluidized Bed Column" *Journal of Petroleum Research and Studies*, Petroleum Research and Development Center, No. 6, 158-185, December 2012.

15- **Mohammad F. Abid**, Mumtaz A. Zablouk, Abeer M. Abdel-Ameer "Experimental study of dye removal from industrial wastewater by membrane technologies of reverse osmosis and nanofiltration", *Iranian Journal of Environmental Health Science & Engineering*, vol. 9,1-17 (2012).

16- **Mohammad F. Abid**, Saadi K. Al-Nasri "Reuse of Iraqi Agricultural Drainage Water Using Nanofiltration", *Journal of Membrane and Separation Technology*, 2013, 2, 53-62.

17- **Mohammad F. Abid**, Orooba N. Abdullah, Hiba M. Abdullah, Kamal M. Ahmed " Comparative Study of CWO of Phenols in Falling-Film and Back-Mix Reactors", *Journal of Chemical Engineering of Japan*, Vol. 46, No. 4, pp. 271-278, 2013.

18- Waleed K. Al-Saraf, Shakir M. Ahmed, **Mohammad F. Abid** "Modeling and Simulation of a Cracking Reactor", delivered as a research, published in the Proceedings of the First Conference of Petroleum and Environment/ North Refinery Company (14-16 Jan. 2013)

19- **Mohammad F. Abid**, Farah T. Jasim, Luma S. Ahmed "Removal of Phenols from Refinery Wastewater using Trickle Bed Reactor", delivered as a research in the Second Conference of Modern Petroleum Technologies/ University of Technology (14-16 May 2013). Published in *Eng. & Technol. Journal*, University of Technology, Vol. 31, Part (A), No. 18, 2013.

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25- **Mohammad F. Abid**, Mohammed I. Mohammed, Orooba N. Abdullah, Luma Hussein, Nieran Manual, Abeer Sameer “Design and Operating a Pilot Plant for Purification of Industrial Wastewater from Toxic Organic Compounds by utilizing Solar Energy”, *The Korean Journal of Chemical Engineering*, Vol. 31, No. 7, 1194-1203 (2014)

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29- **Mohammad F. Abid** “Desulfurization of gas oil using a solar photocatalytic microreactor”, *Iraqi Journal of Chemical and Petroleum Engineering*, Vol.16 No.1 (March 2015) 49- 62

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**37-** Hiba Mahmood Abdulla, Raid Naiem Howyeen, **Mohammad Fadhil Abid**, Ahmed Salman Hamod, Mohamed Hussein Hilal & Abeer Sameer, “Study on a Microreaction Process for Synthesis of Polyaniline “*International Journal of Green Energy*\_ 15(12), 692-703

**38- Mohammad F. Abid**, Mohammed A. Hamza, Shakir M. Ahmed, Salah M. Ali, Sattar J. Hussein, “SYNTHESIS AND CHARACTERIZATION OF UNSUPPORTED CATALYST FOR GAS OIL DESULFURIZATION “ *AL-QADISIYAH JOURNAL FOR ENGINEERING SCIENCES*, Vol. 11 No. 3 (2018), 357-371

**39-Mohammad F. Abid**, Noor H. Hamza, Luma H. Mahmood, and Skuaine J. Mohammed,” Removal of Cr (VI) and Cu (II) ions from synthetic wastewater by solar photocatalytic reactor”, *Engineering and Technology Journal* Vol. 36, Part A, No.4, 2018, 417-423, *UOT*

**40-Mohammad F.Abid**, Luma H. Mahmood, Samer T. Breesam, and Wasen Samie,” Experimental Study and Analysis on Degradation of oily sludge from Process Equipment by Continuous Hybrid Treatment ”, *Journal of Engineering* Volume 24(7) July 2018, 35-49, *University of Baghdad*

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**42- Mohammad F. Abid**, Mohammed K. Abdullah & Salah M. Ali” Experimental Study on Catalyst Deactivation by Nitrogen Compounds in a Hydroprocessing Reactor”, *The Arabian Journal for Science and Engineering* (2018) 43:2133–2143

**43-** Saba A. Ghenni, **Mohammed F. Abed**, Essam K. Halabia, and Saad R. Ahmed, “Investigation of carbon dioxide (CO<sub>2</sub>) capture in a falling film contactor by computer simulation”, *Oil & Gas Science and Technology - Rev. IFP Energies nouvelles* 73, 43 (2018)

**44-** Khalid T. Rashid, Khalid Mansour, **Mohammad F. Abid** , Salah M. Ali , Kadhim N. Abed,” Synthesis of dimethyl carbonate for enhancement of gasoline performance” *Journal of King Saud University – Engineering Sciences*, 31 (2019) 171–177

**45-** LUMA H. MAHMOOD, **MOHAMMAD F. ABID**, MOHAMMED I. MOHAMMED, “STUDY ON ULTRASOUND ASSISTED DESULFURIZATION OF LIGHT GAS OIL USING INORGANIC LIQUIDS “ *Environment Protection Engineering*, Vol. 45, No. 4, (2019)

- 46- Mohammad F. Abid**, Orooba N. Abdulla, Areej F. Kadhim, “Study on removal of phenol from synthetic wastewater using solar photo catalytic reactor “*Journal of King Saud University – Engineering Sciences* 31 (2019) 131–139
- 47- Mohammad F. Abid**, Zainab Y. Shanain, and Kadhim N. Abed, “Experimental and analysis study on dispersion of phases in an Ebullated Bed Reactor “*Oil & Gas Science and Technology - Rev. IFP Energies nouvelles* 74, 20 (2019)
- 48- Hiba M. Abdullah, Mohammad F. Abid**, and Raed N. Hwayyin, “Study on a UV-microreaction process “*AIP Conference Proceedings* **2123**, 020076 (2019)
- 49- Mohammad F. Abid**, Shakir M. Ahmed, Waleed H. AbuHamid, Salah M. Ali, “Study on novel scheme for hydrodesulfurization of middle distillates using different types of catalyst “*Journal of King Saud University – Engineering Sciences* 31 (2019) 144–151
- 50- Luma H. Mahmood and Mohammad F. Abid** “Dmetallization of Iraqi Crude oil by Using Zeolite A “ *INDIAN CHEMICAL ENGINEER*, 2020, VOL. 62, NO. 1, 92–102
- 51- Mohammad F. Abid**, Yasser H. Sabah, Bilal A. Hameed, Farah T. Jasim, “Glucose production from Iraqi date-palm empty fruit fibers “*Journal of Xi'an University of Architecture & Technology*, Volume XII, Issue V (2020), 124- 141
- 52- Zainab Yousif Shanian, Mohammad Fadhil Abid**, Khalid Suker, “Photodegradation of mefenamic acid from wastewater in a continuous flow solar falling film reactor “*Desalination and Water Treatment*, 210 (2021) 22–30
- 53- Marwan Al-Jemeli, Mahmoud Abbas Mahmoud, Hasan Sh. Majdi, Mohammad Fadhil Abid**, Hiba M. Abdullah and Adnan A. AbdulRazak, “Degradation of Anti-Inflammatory Drugs in Synthetic Wastewater by Solar Photocatalysis “*Catalysts* **2021**, 11, 1330
- 54- Dheyaa J. Jasim, Thamer J. Mohammed, Mohammad F. Abid**, “ Natural Gas in Iraq, Currently and Future Prospects: A Review, *Journal of Engineering Research*, Online **DOI:10.36909/jer.11989**
- 55- Luma H. Mahmood, Amer A. AbdulRahman, Mohammad F. Abid**, “Study on The Effect of Solid Properties on The Hydrodynamics in an Ebullated Bed Reactor”, *Journal of Engineering Research* **2022**, Vol. 10 No. (2A), pp. 48- 59
- 56- Seba S. Mohammed, Zainab Y. Shnain, Mohammad F. Abid**, “ Use of TiO<sub>2</sub> in Photocatalysis for Air Purification and Wastewater Treatment: A Review” *Engineering and Technology Journal* 40 (09) (2022). <http://doi.org/10.30684/etj.v40i9.1015>
- 57- Sahar M. Abd Zaid, Adnan A. AbdulRazak, Mohammad F. Abid**, “A Review of Nano-catalyst Applications in Kerosene Desulfurization Techniques”, *Journal of Applied Sciences and Nanotechnology*, Vol. 2, No. 2 (2022). [DOI: 10.53293/jasn.2022.4302.1094](https://doi.org/10.53293/jasn.2022.4302.1094)

**58-** Noor E. Mousa, Seba S. Mohammed, Zainab Y. Shnain, **Mohammad F. Abid**, Khalid A. Sukkar, Asawer A. Al-Wasiti, “Catalytic Photodegradation of Cyclic Sulfur Compounds in a Model Fuel Using a Bench-scale Falling-film Reactor Irradiated by a Visible Light “, *Bulletin of Chemical Reaction Engineering & Catalysis*, 17 (4) 2022, 755-767

**59-** Seba Mohammed, Zainab Yousif, **Mohammad Abid**, Kadhim Abed, Mohammed Ibrahim, Zaineb Hameed Neamah, “Photodegradation of automobile exhaust gases using catalytic Asphalt Pavement “, 2022 International Conference for Natural and Applied Sciences (ICNAS), AL-Hikma University College, Baghdad, Iraq, 978-1-6654-7240-1/22/\$31.00 ©2022 IEEE

**60-** Sahar Mohammed Abd Zaid, Adnan A. AbdulRazak and **Mohammad Fadhil Abid**, “Desulfurization of a Model Liquid Fuel by Adsorption over Zinc oxide/Activated Alumina Assisted with Ultrasonication “, *Egypt. J. Chem.* **Vol. 65**, No. SI:13, pp. 807 - 825 (2022)

**61-** Dheyaa J. Jasim, Thamer J. Mohammed, Hamed N. Harharah, Ramzi H. Harharah, Abdelfattah Amari and **Mohammad F. Abid**, Modeling and Optimal Operating Conditions of Hollow Fiber Membrane for CO<sub>2</sub>/CH<sub>4</sub> Separation, *Membranes* **2023**, 13, 557

**62-** Luma H. Mahmood, **Mohammad F. Abid**, Adnan A. AbdulRazaka, Bashar J. Kadhim, Ibrahim N. Abdulla, Experimental and analysis study on removal of furfural in synthetic refinery wastewater using an agricultural waste-based modified adsorbent, *Desalination and Water Treatment* 296 (2023) 49–59

**63-** Mohammed I. Mohammed, **Mohammad F. Abid** , Ibtal Albassam , Hiba M. Abdullah , Adnan A. Abdul Razak , Mahmoud A. Mahmoud , Eman K. Alaq and Farah M. Aswed, Characterization of Minerals and Health Impact of Metals in Dust Storm Fallen on Baghdad, Iraq, *Asian Journal of Water, Environment and Pollution*, Vol. 21, No. 1 (2024), pp. 53-61

**64-** **Mohammad Fadhil Abid Ali**, Luma Hussain Mahmood , Basheer A. AbdulHussain, Ruqyaa Raad Hussein, Experimental Study on viscosity reduction of East Baghdad's heavy oil system, *Journal of Al-Turath University College*, Vol. 39, 131-141 (2024)

**65-** Mohammed A. Sarran, Adnan A. AbdulRazak, **Mohammad F. Abid**, Alaa D. Jawad, Oily wastewater treatment using low-cost and highly efficient natural and activated Iraqi bentonite, *Desalination and Water Treatment* 319 (2024) 100412.

**66-** Firdos M. Abdulla, Zainab Y. Shnain, Asawer A. Alwaisit & **Mohammad F. Abid**, Use of Synthetic Iron Oxide-Doped Titanium Dioxide Nanoparticles in Photocatalytic Degradation of BTX from Petroleum Wastewater, *Russ J Appl Chem* (2024). <https://doi.org/10.1134/S1070427224010154>

**67-** Firdos M. Abdulla, Zainab Y. Shnain, Asawer A. Alwaisit & **Mohammad F. Abid**, BTX Photodegradation Using Synthetic Nano Photocatalysts, *Journal of Applied Sciences and Nanotechnology*, Vol. 5, No. 1 (2025)

68- Farah T. Jasim, **Mohammad F. Abid**, Saba A. Ghani, Kosar Hikmat Hama Aziz, Asawer A. Alwaasiti, Amer A. Abdulrahman, Islam Md Rizwanul Fattah, Kui Zhang, Anh N. Phan, Adam P. Harvey. Hydrogen-driven enhancement of CO<sub>2</sub> splitting in a non-thermal plasma reactor for sustainable carbon utilization. Green Technologies and Sustainability Volume 4, Issue 2, April 2026, 100347

#### الإشراف على مشاريع طلبية المرحلة الرابعة

- 1- Modelling of Absorption of CO<sub>2</sub> by NaOH Solution in Packed Bed Absorber, 2006 (1 student)
- 2- Modelling of CO<sub>2</sub> Absorber using Hot Carbonate Process, 2006 (1 student)
- 3- Modelling of Laminar Falling Film Absorber, 2006 (1 student)
- 4- Stability Analysis of Isothermal in a CSTR, 2006 (2 students)
- 5- Simulation of a Sulfonating Falling Film Reactor, 2006 (1 student)
- 6- Simulation of Ozone Bubble Diffusion Contactor, 2006 (1 student)
- 7- Numerical Analysis of Adsorption from Flue Gas in Packed Bed Reactor, 2006 (1 student)
- 8- Effect of Mixing Patterns on Performance of a CSTR, 2006 (1 student)
- 9- Experimental Study of the Effect of Reynolds Number on the Mass Transfer in a Liquid Falling Film Absorber, 2006 (2 student)
- 10- Design of Furfural Production Plant (3500 ton /year), 2007 (1 student)
- 11- Design of an Ammonia Production Plant –Line No. 1- (25000 ton/year), 2007 (1 student)
- 12- Design of an Ammonia Production Plant (50000 ton/year), 2007 (1 student)
- 13- Design of Nitroglycerine Production Plant (1 ton/hr), 2007 (1 student)
- 14- Design of a Hydrogenation Plant for Pyro-Gasoline (2.5 ton/hr), 2007 (1 student)
- 15- Design of Ammonium Perchlorate Production Plant (100 ton/year), 2008, (1 student)
- 16- Design of Ammonium Perchlorate Production Plant (225 ton/year), 2008, (1 student)
- 17- Design of a Sweeting Plant for Crude Oil (90000 bbl/day), 2008 (1 student)
- 18- Design of Titanium Dioxide Production Plant (115 ton/year), 2008 (1 student)
- 19- Design of Detergent Production Plant (100000 ton/year), 2008 (1 student)
- 20- Design of Organic Fertilizer Production Plant from Activated Sewage (10 m<sup>3</sup>/hr), 2009 (1 student)
- 21- Design of a Dairy Wastewater Treatment Plant (250 m<sup>3</sup>/day), 2009 (1 student)
- 22- Design of Ethylene Production Plant by Pyrolysis of Propane (100 ton/day), 2010 (1 student)
- 23- Design of Liquid Titanium Dioxide Plant (16 ton/hr), 2010 (1 student)
- 24- Design of NH<sub>4</sub>ClO<sub>4</sub> Production Plant (50 ton/day), 2011 (2 students)
- 25- Design of C<sub>2</sub>H<sub>2</sub> Production Plant by Pyrolysis of C<sub>3</sub>H<sub>8</sub> (1000 ton/day), 2012 (2 students)
- 26- Design of Dimethyl Carbonate Production Plant (1ton/hr), 2014 (2 students)
- 27- Design of Boric Acid Production Plant (50000 ton/year), 2015 (2 students)
- 28- Design of DMC Production Plant (10 ton/day), 2016 (2 students)
- 29- Design of Vinyl Chloride Monomer Production Plant (40000 ton/year), 2018 (2 students)

- 30- Design of a pilot Plant for Removal of Petroleum Pollutants from Wastewater of Al-Daura Refinery using the solar photocatalytic method (10 mg/l Phenol in 10 m<sup>3</sup>/hr), 2018 (3 students)
- 31- Design of a Hydrocracking Unit (17200 bbl/day), 2024(2 students)
- 32- Production of Ethylene from Steam Cracking of Propane (1000 tonn/day) 2024 (3 students)

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- 6- المؤتمر العلمي الاول حول البيئة و التنمية المستدامة (29-30 كانون الاول) 2013, الجامعة التكنولوجية
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- 15 -- المؤتمر الدولي السادس عشر لجامعة التراث- (17-18 نيسان) 2024- جامعة التراث
- 16 - المؤتمر الدولي السابع عشر لجامعة التراث- (26-27 نيسان) 2025- جامعة التراث

#### \* الندوات و الدورات التدريبية

عدد من الندوات و الدورات التدريبية في المواضيع التالية: طرق معالجة تلوث البيئة, تصميم وتنفيذ وادارة مشاريع تصفية المياه, التكنولوجيا الحديثة في الصناعة النفطية, دورة تدريبية حول اوعية التكسير النفطي , السلامة البيئية

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