

# CURRICULUM VITAE



## PERSONAL DETAILS

**Name** : PROF. DR. ADNAN ABDULJABBAR ABDULRAZZAQ

**Department:** Chemical Engineering Department

**University:** University of Technology - IRAQ.

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## ACADEMIC POSITIONS

1. 2006-2009, **Lecturer**, Chemical Engineering Department, University of Technology -IRAQ.
2. 2009-2019, **Asst. Professor**, Chemical Engineering Department, University of Technology -IRAQ.
3. 2016-2017, **Visiting Professor**, Department of Chemical and Biochemical Engineering, Western University - Canada
4. 2019-date, **Professor**, Chemical Engineering Department, University of Technology-IRAQ.

## EXPERIENCE

### Research Experience

1. Composite Materials (**17 years**).
2. Nanotechnology and its application in chemical engineering (**10 years**).
3. Environmental Engineering (**7 years**).
4. Petroleum Refinery Engineering (**13 years**).

### **Teaching Experience**

1. 2006-2009, **Lecturer**, Chemical Engineering core subjects for BSc program, University of Technology, Chemical Engineering Department -IRAQ. Subjects:
  - Petroleum Refinery Engineering
2. 2009-2019, **Associate Professor**, Chemical Engineering core subjects for BSc, MSc and PhD Programs, University of Technology, Chemical Engineering Department -IRAQ. Subjects:
  - Petroleum Refinery Engineering
  - Gas Technology
  - Petrochemical Industries
  - Chemicals from Petroleum
  - Polymer Technology
3. 2019-2016, **Professor**, Chemical Engineering core subjects for BSc, MSc and PhD Programs, University of Technology, Chemical Engineering Department - IRAQ. Subjects:
  - Petroleum Refinery Engineering

### **University Services**

1. 2011-2015, Director of Petroleum Refinery and Gas Technology Branch, Chemical Engineering Department, University of Technology -IRAQ.
2. 2018-2019, Director of Chemical Engineering Pollution Branch, Chemical Engineering Department, University of Technology -IRAQ.
3. 2019-date, Deputy Head of Chemical Engineering Department, University of Technology -IRAQ.
4. 2006-date, Member and head of the following committees in University of Technology, Chemical Engineering Department-IRAQ. ;
  - Department postgraduate committee.
  - Department scientific committee.
  - Department examination committee.
5. 2019- date, Member committee in University of Technology-IRAQ
  - University postgraduate committee.

### **ACADEMIC SERVICES**

1. Internal examiner for several PhD and MSc thesis, University of Technology / Iraq.
2. External examiner for several PhD and MSc thesis University of Baghdad / Iraq.

3. External examiner for several MSc thesis University of Tikrit / Iraq.
4. External examiner for several MSc Technical College / Iraq.
5. Evaluation panel for research proposals.

### **ACADEMIC QUALIFICATIONS**

1. **PhD** in Chemical Engineering, University of Technology, Chemical Engineering Department-IRAQ
2. **MSc** in Chemical Engineering, University of Technology, Chemical Engineering Department-IRAQ
3. **BSc** in University of Technology, Chemical Engineering Department-IRAQ

### **LIST OF PUBLICATIONS**

#### **Refereed Journals**

1. Tahani Al-dahri , Adnan A. AbdulRazak & Sohrab Rohani “ Preparation and characterization of Linde-Type A zeolite (LTA) from coal fly ash by microwave-assisted synthesis method: its application as adsorbent for removal of anionic dyes. **International Journal of Coal Preparation and Utilization**. [doi.org/10.1080/19392699.2020.1792456](https://doi.org/10.1080/19392699.2020.1792456)
2. Zaidoon M. Shakor, Adnan A. AbdulRazak, and Khalid A. Sukkar “Detailed Reaction Kinetic Model of Heavy Naphtha Reforming “Arabian journal of science and technology, **Arabian journal of science and technology**. [doi.org/10.1007/s13369-020-04376-y](https://doi.org/10.1007/s13369-020-04376-y)
3. Zaiyanb Majid, Adnan A. AbdulRazak and Wallaa Abdul Hadi Noori “Modification of Zeolite by Magnetic Nanoparticles for Organic Dye Removal” **Arabian journal of science and technology**, 44: 5457–5474 (2019)
4. Adnan A. AbdulRazak, Zaidoon M. Shakor, and Sohrab Rohani, “Optimizing Biebrich Scarlet Removal from Water by Magnetic Zeolite 13X Using Response Surface Method” **Journal of environmental chemical engineering** (2018) 6175–6183.
5. Tahani Al Dahri, Adnan. A. AbdulRazak, Intisar Hussain Khalaf, and Sohrab Rohani “ Response surface modeling of the removal of methyl

orange dye from its aqueous solution using two types of zeolite synthesized from coal fly ash” June 2018 , **Materials Express** 8(3).

6. Adnan. A. AbdulRazak, and Sohrab Rohani “ Sodium Dodecyl Sulfate-Modified Fe<sub>2</sub>O<sub>3</sub>/Molecular Sieves for Removal of Rhodamine B Dyes” **Advances in Materials Science and Engineering** ,Volume 2018, DOI: 10.1155/2018/3849867.
7. Ghassan R. Daham, Adnan. A. AbdulRazak, Adel Sharif Hamadi, and Ayad M. Ahmed "Re-refining of used lubricant oil by solvent extraction using central composite design method" **Korean J. Chem. Eng.** 34 (9) 2435-2444 (2017).
8. Mohammed I. Mohammed, Adnan. A. AbdulRazak, and Mohammed A. Shehab " Synthesis of Nanocatalyst for Hydrodesulphurization of Gasoil Using Laboratory Hydrothermal Rig " **Arabian journal of science and technology**, 42(4):1381–1387 (2017)
9. Adnan A. Abdul Razak, Najat j. Saleh, and Mariam E. Aziz" Cure Kinetics of Epoxy Resin Studied by Dynamics and Isothermal DSC Data " **Engineering and technology journal**, Vol.34, Part (A), No.9, 2016.
10. Adnan A. Abdul Razak, Najat j. Saleh, and Mariam E. Aziz " The Rheological Properties of Isothermal Curing of DGEBA/ TETA Epoxy System " **Engineering and technology journal**, Vol.33, Part (A), No.5, 2015.
11. M. I. Mohammed, Adnan A. Abdul Razak, and Dhiyaa A. Hussein Al-Timimi " Modified Multiwalled Carbon Nanotubes for Treatment of Some Organic Dyes in Wastewater " **Advances in Materials Science and Engineering**, Volume 2014, Article ID 201052, 10 pages. <http://dx.doi.org/10.1155/2014/201052>
12. Mohammed Ibrahim, Adnan A. AbdulRazak and Ayad Dari Jaafar " Removal of Copper (II) from Wastewater Using Modified Carbon Nanotubes" **Engineering and technology journal**, Vol 31, N0.12, (2013).
13. Najat j. Saleh, Adnan A. Abdul Razak, Manal A. Tooma and Mariam E. Aziz" A Study Mechanical Properties of Epoxy Resin Cured at Constant Curing Time and Temperature with Different Hardeners " **Engineering and technology journal**, Vol 29, N0.9, (2011)

14. Adnan A. Abdul Razak, Ali M. Hameed and Saad R. Sultan " Modelling of the cure of epoxy based composite heated at constant temperature in cylindrical mould" **Diyala Journal of Engineering Sciences**, 06/2011; 4(1):1-11.
15. Ghanim M. Alwan, Farooq A. Mehdi, Adnan Abdul Arazak and Neran Manual\* "Operation and Ph Control of A Wastewater Treatment Unit Using LabVIEW " **Engineering and technology journal**, Vol.28, No.17, 2010.
16. Saad R. Sultan, Najat J. Salah and Adnan A. Abdul Razak "Study the adhesion behavior of polymer blend compose of epoxy resin and poly (vinyl butyral) used for aluminum metal adhesion " **Al-Taqani Journal**, Vol 23, No. 1 (2010)
17. Adnan A. Abdul Razak" Mathematical model for autoclave curing of unsaturated polyester based composite materials" **Tikrit journal of engineering sciences**, Vol.17, No.1, March (2010).
18. Adnan A. Abdul Razak, Najat j. Salah and Waffa Abdul Kazem "Electrical and thermal properties of epoxy resin filled with carbon black" **Engineering and technology journal**, Vol 27, N0.11, (2009)
19. Adnan A. Abdul Razak" Study Diffusion of Water to Carbon fibre /Epoxy Composite" **Engineering and technology journal**, Vol 27, N0.1, (2009)
20. Hussein Ali Hamid AL-Abdly, Najat j. Salah, Adnan A. AbdulRazak and Hassen Sh. Majd "Diffusion of various liquids to tubular shaped fiber reinforced composites" **Engineering and technology journal**, Vol 26, No.8 (2008).
21. Hussein Ali Hamid AL-Abdly, Najat j. Salah, Adnan A. AbdulRazak and Hassen Sh. Majdi "Study the creep of tubular shaped fiber reinforced composites" **Tikrit journal of engineering sciences**, Vol.15, No.4, Dec. (2008).
22. Hussein Ali Hamid AL-Abdly, Najat j. Salah, Adnan A. AbdulRazak and Hassen Sh. Majdi "Study the creep of tubular shaped fiber reinforced composites" **Tikrit journal of engineering sciences**, Vol.15, No.4, Dec. (2008).
23. Adnan A. Abdul Razak, Najat j. Salah, and Hassen Sh. Majdi "Mathematical Model: for Autoclave Curing of Epoxy Resin Based

Composite Materials” **Engineering and technology journal**, Vol 25, No. 7 (2007).

24. Adnan A. Abdul Razak, Najat j. Salah, and Hassen Sh. Majdi.” Cure Kinetics of Epon 828 Cured With TETA” **Tikrit journal of engineering sciences**, Vol.12, No.2, May (2005).

25. Hussein Ali Hamid AL-Abdly, Najat j. Saleh, Adnan A. AbdulRazak and Hassen Sh. Majdi " Study the Adhesion Force of Tubular Shaped Fiber Reinforced Composites" **Engineering and technology journal**, Vol 26, No.7 (2008).

### **Conferences**

1. 1<sup>st</sup> Scientific Conference for Chemical Engineering and Petroleum Engineering (2000)  
University of Tikrit / Iraq

2. Adnan A. Abdul Razak” Mathematical model for autoclave curing of unsaturated polyester based composite materials”. published at the Jordan International Chemical Engineering Conference V (JICEC05) held at 12-15 Sep. 2005 Amman, Jordan.

3. Adnan A. Abdul Razak” Modified Multiwalled Carbon Nanotubes for Organic Wastewater Treatment" Accepted to appear at INTERNATIONAL CONFERENCE ON IONIC LIQUIDS 2013 (ICIL 13), 11 th - 13 rd December,2013 Kuala Lumpur, Malaysia.

4. Adnan A. Abdul Razak " as a visitor scholar in the field of polymer and nanotechnology" from December 4, 2014 – January 3, 2015 at Missouri University of Science & Technology at Rolla.

5. S. R. Sultan, Adnan A. Abdul Razak, A. M. Hameed “RHEOLOGICAL PROPERTIES OF VACUUM GAS OIL – POLYPROPYLENE BLENDS SYSTEM" Second Engineering Scientific Conference /College of Engineering –University of Diyala 16-17 December. 201 5, pp. 804-812.

6. Zaiamb Majid , Adnan A. AbdulRazak and Walla Abdul Hadi “ Modification of Zeolite by Magnetic Nanoparticles for Organic Dye Removal “ Fourth International Scientific Conference For Environment and Sustainable Development Cairo, Egypt November 25-27, 2018.

### **Patents:**

1- Ghassan R. Daham, Adnan. A. AbdulRazak, Adel Sharif Hamadi, and Ayad M. Ahmed “Re-refining of base oil from used lubricating oil by isoamyl alcohol and diethylamine” Iraqi patent No. 5189 (2018).

## **BOOKS**

- 1- Mohammed I. Ibrahim, Adnan A. AbdulRazak and Ayad Dari Jaafar " Removal of Copper (II) From Wastewater Using Modified Carbon Nanotubes" LAP LAMBERT Academic Publishing GmbH & Co. KG, 2013, ISBN 978-3-659-52226-0
- 2- Dhiyaa A. Hussein, Adnan A. AbdulRazak and Mohammed I. Ibrahim "Modified Multiwalled Carbon Nanotubes for Dyes Removal from Wastewater" LAP LAMBERT Academic Publishing GmbH & Co. KG,2014, ISBN 978-3-659-54921-2.

## **POSTGRADUATE SUPERVISION**

### **Graduated MSc Students**

| Degree | Thesis Title  | Student name          | Year of graduation | Role            |
|--------|---|-----------------------|--------------------|-----------------|
| MSc    | "A Study Mechanical Properties of Epoxy Resin Cured with Different Hardeners"   | Maryem Emad           | 2010               | Co-Supervisor   |
| MSc    | " Removal of Copper (II) From Wastewater Using Modified Carbon Nanotubes "  | Ayad Dari Jaafar      | 2012               | Co-Supervisor   |
| MSc    | " Study of Mechanical and Physical Properties of Carbon Naotubes (CNTS) Composite Material for Applications in Chemical Reactor Material. " | Hassen Hamid Hassen   | 2012               | Co-Supervisor   |
| MSc    | "Modified Multiwalled Carbon Nanotubes for Organic Wastewater Treatment"  | Dhiyaa A. Hussein     | 2013               | Co-Supervisor   |
| MSc    | " Purification of ethanol produced by al Mosul state company for sugar production using carbon Nano filter"                                 | Ahmed Talal Sadeq     | 2015               | Co-Supervisor   |
| MSc    | " Preparation and characterization of nanocatalyst for desulfurization of vacuum gasoil (VGO)"  | Mohammed Ahmed Shehab | 2015               | Co-Supervisor   |
| MSc    | "Re-refining of used lubricant oil by solvent extraction"   | Ghassan Rokan Daham   | 2015               | Main Supervisor |

|     |  |                         |      |                 |
|-----|--|-------------------------|------|-----------------|
| MSC | " Study of the Thermodynamics behavior for polymer blends"   | Mohammed Shorbaz Graish | 2017 | Main Supervisor |
| MSC | Modification of Zeolite by Magnetic Nanoparticles for Organic Dye Removal                                    | Zaianb Majid            | 2019 | Main Supervisor |
| MSC | "Preparation and characterization of mineral oil based nanoemulsion for metalwork lubrication applications " | Nuhad Badeea            | 2020 | Main Supervisor |

### **Graduated Higher Diploma Students**

| Degree         | Thesis Title   | Student name       | Year | Role            |
|----------------|--|--------------------|------|-----------------|
| Higher Diploma | "Evaluation of Basra Crude Oil"                              | Haider Twomaz      | 2013 | Main Supervisor |
| Higher Diploma | " Additives for Lubrication Oil to Improve its Properties ". | Wissam Adnan Hyder | 2013 | Main Supervisor |

### **Ongoing MSc Students**

| Degree | Thesis Title   | Student name       | Status  | Role            |
|--------|--|--------------------|---------|-----------------|
| MSc    | "Preparation and characterization of Eco-Friendly composite membrane for separation process" | Sarah Mudhir Ahmed | ONGOING | Main supervisor |

### **Ongoing PhD Students**

| Degree | Thesis Title   | Student name      | Status  | Role          |
|--------|--|-------------------|---------|---------------|
| PhD    | "Different Nanoparticles Additives to Membrane Polymers for Wastewater Treatment by Membrane Technology" | Dhiyaa A. Hussein | ONGOING | Co-Supervisor |