

السيرة الذاتية



الدكتور احمد رمضان محسن

الجامعة المستنصرية - كلية الهندسة

Mobile: +9647727547147

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ملخص تعريفي:

الدكتور احمد رمضان حاصل على شهادة البكالوريوس في الهندسة الميكانيكية تخصص هندسة التكييف والتبريد من الجامعة التكنولوجية قسم هندسة المكان والمعدات في عام ١٩٩٨. حصل على شهادة الماجستير في الهندسة الميكانيكية تخصص ديناميك الموانع من الجامعة نفسها عام ٢٠٠١. اول تعيين كان في وزارة الصناعة والمعادن من عام ٢٠٠١ إلى عام ٢٠٠٦، حيث كنت مسؤول الصيانة الميكانيكية في معمل بابل ٢ في الشركة العامة لصناعة البطاريات و ثم عملت في قسم البحث والتطوير في الشركة العامة للصناعات الكهربائية. التحقت في الجامعة المستنصرية - كلية الهندسة - قسم الهندسة الميكانيكية عام ٢٠٠٦. بعد ذلك التحقت في جامعة هدرسفيلد في المملكة المتحدة لدراسة الدكتوراه في عام ٢٠١٣، وحصلت على درجة الدكتوراه في الهندسة الميكانيكية (الأنظمة الهيدروليكية) عام ٢٠١٨.

Google Scholar ID: <https://scholar.google.com/citations?user=1TP701EAAAAJ&hl=en>

Researchgate ID: <https://www.researchgate.net/profile/Ahmed-Al-Obaidi5>

Research ID: <https://researchid.co/rid8412>

ORCID ID: <https://orcid.org/0000-0003-3819-7098>

Scopus Author ID: <https://www.scopus.com/authorid/detail.uri?authorid=57215528449>

Publons ID: <https://publons.com/researcher/1691243/dr-ahmed-ramadhan-al-obaidi/publications/>

Academia ID: <https://independent.academia.edu/AhmedAlObaidi6>

Academic profile: <https://uomustansiriyah.edu.iq/e-learn/profile.php?id=5173>

الشهادات الدراسية:

دكتوراه هندسة ميكانيكية - جامعة هدرسفيلد - المملكة المتحدة - ٢٠١٨

ماجستير هندسة ميكانيكية - الجامعة التكنولوجية - بغداد - ٢٠٠١

بكالوريوس هندسة ميكانيكية - الجامعة التكنولوجية - بغداد - ١٩٩٨

الخبرة الأكاديمية والتدريس:

مهندس مسؤول الصيانة الميكانيكية في الشركة العامة لصناعة البطاريات بغداد (٢٠٠٣-٢٠٠١)

مهندس في قسم البحث والتطوير الشركة العامة للصناعات الكهربائية بغداد (٢٠٠٦-٢٠٠٣)

تدريسي في قسم الهندسة الميكانيكية - كلية الهندسة - الجامعة المستنصرية بغداد (٢٠٠٦- لحد الآن)

احد اعضاء اللجنة الامتحانية في قسم الهندسة الميكانيكية - كلية الهندسة - الجامعة المستنصرية بغداد (٢٠١٨- لحد الآن)

احد اعضاء لجنة شؤون الطلبة في قسم الهندسة الميكانيكية - كلية الهندسة - الجامعة المستنصرية بغداد (٢٠١٨- لحد الآن)

المقررات الدراسية التي تم تدريسها:

الأستاذ الدكتور
بشار جبار
رئيس قسم
بغداد
المرکز العلمي والدراسي

- 2001 –2003: Ministry of Industry and Minerals State Battery Manufacturing Company in Babylon factory no. 2 Baghdad—Iraq.
- 2003 –2006: Ministry of Industry and Minerals State Company for Electrical Industries in the Research Department Baghdad—Iraq.
- 2006- Continues: Ministry of Higher Education & Scientific Research. AL-Mustinsriya University Faculty of Engineering Mechanical Engineering Department.
- Awarded more than 30 thanks and appreciation.

COURSES TAUGHT:

Undergraduate	Graduate
Air Conditioning / Lab	
Turbo machinery / Lab	
Power plants / Tutorial	
Supervision projects for 4th year class	
Drawing Engineering	
Mathematics I	
Fluid Mechanics for 2th year	

PROFESSIONAL AFFILIATIONS:

- Member of the Iraqi Engineers Union.
- Member of the Mustansiriyah University teaching staff

PUBLICATIONS:

- Al-Obaidi, Ahmed, Pradhan, Suman, Asim, Taimoor, Mishra, Rakesh and Zala, Karina (2014) Numerical studies of the velocity distribution within the volute of a centrifugal pump. In: 27th International Congress of Condition Monitoring and Diagnostic Engineering Management, 16th - 18th September 2014, Brisbane, Australia.
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- A Ramadan, Basim H., Abas, K. Studying the effect of number and location of loading of chilled water pipes used to cool the inside walls of building on the distribution of temperature on the inner surface. Journal of Wassit for Science and Medicine 6 (ISSN 58161992), PP.1-15.
- AR Mohsin, BH Abood. Simulation analysis of refrigerant flow inside capillary tube for two phase flow. Gulf University Journal: Engineering and Computer Engineering Division.
- ARM Al-Obaidi. Experiential and Numerical Investigations on the Cavitation Phenomenon in a Centrifugal Pump. University of Huddersfield UK 2018.

The bottom of the page features a handwritten signature in blue ink and a circular official stamp. The stamp contains the text 'جامعة المستنصرية' (Mustansiriyah University) and 'الكلية الهندسية' (Faculty of Engineering). Below the stamp, there is a line of text in Arabic: 'لشؤون العلمية والدراسات العليا' (for Scientific and Postgraduate Affairs).

- Al-Obaidi, A. R. (2019). Monitoring the performance of centrifugal pump under single-phase and cavitation condition: A CFD analysis of the number of impeller blades. *Journal of Applied Fluid Mechanics*, 12(2), 445-459.
- Al-Obaidi, A. R. (2019). Investigation of effect of pump rotational speed on performance and detection of cavitation within a centrifugal pump using vibration analysis. *Heliyon*, 5(6), e01910.
- Al-Obaidi, A. R. (2019, July). Numerical Investigation of Flow Field Behaviour and Pressure Fluctuations within an Axial Flow Pump under Transient Flow Pattern Based on CFD Analysis Method. In *Journal of Physics: Conference Series* (Vol. 1279, No. 1, p. 012069). IOP Publishing.
- Mohammed, A. A., Al-Obaidi, A. R., & AlTabbakh, A. A. (2019, July). Experimental investigation of using kerosene-biodiesel blend as an alternative fuel in diesel engines. In *Journal of Physics: Conference Series* (Vol. 1279, No. 1, p. 012022). IOP Publishing.
- Al-Obaidi, A. R. (2019). Investigation of fluid field analysis, characteristics of pressure drop and improvement of heat transfer in three-dimensional circular corrugated pipes. *Journal of Energy Storage*, 26, 101012.
- Al-Obaidi, A. R. (2020). Detection of cavitation phenomenon within a centrifugal pump based on vibration analysis technique in both time and frequency domains. *Experimental Techniques*, 44(3), 329-347.
- Al-Obaidi, A. R. Numerical Investigations of Transient Flow Characteristic in Axial Flow Pump and Pressure Fluctuation Analysis Based on the CFD Technique. *Journal of Engineering Science and Technology Review* 12 (6) (2019) 70 – 79.
- Al-Obaidi, A. R., & Sharif, A. (2021). Investigation of the three-dimensional structure, pressure drop, and heat transfer characteristics of the thermohydraulic flow in a circular pipe with different twisted-tape geometrical configurations. *Journal of Thermal Analysis and Calorimetry*, 143(5), 3533-3558.
- Al-Obaidi, A. R., & Mohammed, A. A. (2019). Numerical Investigations of Transient Flow Characteristic in Axial Flow Pump and Pressure Fluctuation Analysis Based on the CFD Technique. *Journal of Engineering Science & Technology Review*, 12(6).
- Al-Obaidi, A. R., & Mishra, R. (2020). Experimental investigation of the effect of air injection on performance and detection of cavitation in the centrifugal pump based on vibration technique. *Arabian Journal for Science and Engineering*, 45(7), 5657-5671.
- Al-Obaidi, A. R. (2020). Influence of guide vanes on the flow fields and performance of axial pump under unsteady flow conditions: Numerical study. *Journal of Mechanical Engineering and Sciences*, 14(2), 6570-6593.

6570-6593

إشارة الأستاذ المساعد الدكتور
 جبار جبار جبار
 رئيس قسم
 الشؤون العلمية والدراسات العليا

- Al-Obaidi, A. R. (2020). Analysis of the flow field, thermal performance, and heat transfer augmentation in circular tube using different dimple geometrical configurations with internal twisted-tape insert. *Heat Transfer*, 49(8), 4153-4172.
- AL-OBAIDI, A. R. (2020). Experimental Comparative Investigations to Evaluate Cavitation Conditions within a Centrifugal Pump Based on Vibration and Acoustic Analyses Techniques. *Archives of Acoustics*, 45(3), 541-556.
- Al-Obaidi, A. R. (2020). Experimental Investigation of Cavitation Characteristics within a Centrifugal Pump Based on Acoustic Analysis Technique. *International Journal of Fluid Mechanics Research*, 47(6).
- Al-Obaidi, A. R. (2020). Analysis of the Effect of Various Impeller Blade Angles on Characteristic of the Axial Pump with Pressure Fluctuations Based on Time-and Frequency-Domain Investigations. *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering*, 1-19.
- Al-Obaidi, A. R., & Jaffal, H. M. (2021). Influence of Various Types of Twisted Tape inserts on Hydrodynamic, Pressure Drop and Thermal Heat Performance in Heat Ex-changers: A Review Study. *Anbar Journal of Engineering Sciences*, 9(1).
- Al-Obaidi, A. R. (2021). Study the influence of concavity shapes on augmentation of heat-transfer performance, pressure field, and fluid pattern in three-dimensional pipe. *Heat Transfer*.
- Jaffal, H. (2021). Augmentation of Fluid Flow and Heat Transfer Characteristics in corrugated Channel: A Review Study: corrugated Channel A Review Study. *Diyala Journal of Engineering Sciences*, 14(1), 31-56.
- Jaffal, H. M., Ghani, I. A., & Al-Obaidi, A. R. (2021). The effect of interruptions on thermal characteristics of corrugated tube. *Case Studies in Thermal Engineering*, 25, 100910.
- Alhamid, J., & Al-Obaidi, A. R. (2021, March). Effect of Concavity Configuration Parameters on Hydrodynamic and Thermal Performance in 3D Circular Pipe using Al₂O₃ Nanofluid Based on CFD Simulation. In *Journal of Physics: Conference Series* (Vol. 1845, No. 1, p. 012060). IOP Publishing.
- Alhamid, J., & Al-Obaidi, R. A. (2021, March). Flow Pattern Investigation and Thermohydraulic Performance Enhancement in Three-Dimensional Circular Pipe under Varying Corrugation Configurations. In *Journal of Physics: Conference Series* (Vol. 1845, No. 1, p. 012061). IOP Publishing.
- Al-Obaidi, A. R., & Chaer, I. (2021). Study of the Flow Characteristics, Pressure Drop and Augmentation of Heat Performance in a Horizontal Pipe with and without Twisted Tape Inserts. *Case Studies in Thermal Engineering*, 100964.
- Al-Obaidi, A. R. Investigation of the flow, pressure drop characteristics, and augmentation of heat performance in a 3D flow pipe based on different inserts of twisted tape configurations. *Heat Transfer*.

تطوير المهارات:

- Certificate of Achievement for having successfully graduated on time in 2018. University of Huddersfield.
- Certificate of Achievement for successfully passed the Teaching Assistant Preparation Programme (TAPP) in 2018. University of Huddersfield.
- Certificate of Achievement for successfully passed the Healthy and Safety Programme (IOSH) in 2016. University of Huddersfield.
- Certificate of promotion for successful completion of the Pre-Sessional Programme (PSP) in UK 2013.
- Certificate of Achievement for successfully achieving Upper intermediate English Language Programme in Leeds English Language School (LELS) UK 2013.
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- Certificate of promotion for having successfully passed the Teaching Methods Programmed from University of Technology Iraq 2008.
- Certificate of promotion for having successfully passed the English Language Test from University of Baghdad / College of Education for Women Iraq, 1998.
- Certificate of participation, " Numerical Investigation of Flow Field Behaviour and Pressure Fluctuations within an Axial Flow Pump under Transient Flow Pattern Based on CFD Analysis Method". The first International Scientific Conference Al-Ayen University, Dhi Qar – Iraq. March 30-31, (2019).
- Certificate of participation, " Experimental investigation of using kerosene-biodiesel blend as an alternative fuel in diesel engines". The first International Scientific Conference Al-Ayen University, Dhi Qar – Iraq. March 30-31, (2019)
- Certificate of participation, Numerical Investigation of Fluid Flow, Characteristics of Thermal Performance and Enhancement of Heat Transfer of Corrugated Pipes with Various Configurations., 2nd International Conference on Trends in Mechanical and Aerospace (TMAE) Washington, USA, September 25-27, 2020.
- Certificate of participation, First Online Scientific Conference for Graduate Engineering Students - College of Engineering, Mustansiriyah University, Baghdad-Iraq, June (2020)

- المشاركة في بحوث في مؤتمرات عالمية
- المشاركة في بحوث في مؤتمرات محلية في الجامعات العراقية
- مقيم لعدد من البحوث لمجلات عالمية ضمن مستويات سكوبس
- مقيم لعدد من البحوث لمجلات ومؤتمرات محلية في الجامعات العراقية
- مقيم لغوي لطاريح الدراسات العليا في الجامعات العراقية
- المشاركة في بحوث مشتركة مع باحثين خارجيين في المملكة المتحدة و الولايات المتحدة الأمريكية.
- اجادة العمل على برامج الحاسبة المختلفة مايكروسوفت (Microsoft office) اوفيس ومني تاب (Minitab) والعديد من البرامج المتنوعة الاخرى
- اجادة العمل على برنامج المحاكاة العددي فلونت (Fluent) والماتلاب (Matlab) لمعالجة الاشارات المختلفة (Signal processing)
- اجادة العمل على برنامج (Tecplot)

الاستاذ المساعد
مشاريع تطوير المهارات
رئيس قسم التطوير
معاون العميد

Curriculum Vitae



Dr. Ahmed Ramadhan Mohsin

Mustansiriyah University- College of Engineering

Mobile: +9647727547147

Email: ahmedram@uomustansiriya.edu.iq, atm961975@gmail.com

PERSONAL SUMMARY:

Dr. Ahmed Ramadhan Al-Obaidi graduated with a degree in Mechanical Engineering specializing in Air-Conditioning and Refrigeration Department from the University of Technology, Baghdad, Iraq (1998), followed by a Master's in Mechanical Engineering / Fluid Dynamics from the same University (2001). Al-Obaidi served in the Ministry of Industry and Minerals from 2001 to 2006, where he was involved in State Battery Manufacturing and State Company for Electrical Industries in the Research Department. He joined Mustansiriyah University - Faculty of Engineering - Mechanical Engineering Department as an assistant lecturer from 2006. He joined University of Huddersfield, UK as a post graduate researcher in 2013, and he obtained his PhD in Mechanical Engineering (Hydraulic Systems) from the University of Huddersfield 2018, UK. Currently, Al-Obaidi is working at the Mustansiriyah University in Faculty of Engineering / Mechanical Engineering Department.

Google Scholar ID: <https://scholar.google.com/citations?user=ITP701EAAA&hl=en>

Researchgate ID: https://www.researchgate.net/profile/Ahmed_Al-Obaidi5

Research ID : <https://researchid.co/tj38412>

ORCID ID : <https://orcid.org/0000-0003-3819-7008>

Scopus Author ID : <https://www.scopus.com/authid/detail.uri?authorId=57215528449>

Publons ID: <https://publons.com/researcher/1691243/dr-ahmed-ramadhan-al-obaidi/publications/>

Academia ID: <https://independent.academia.edu/AhmedAlObaidi6>

Academic profile : <https://uomustansiriya.edu.iq/e-learn/profile.php?id=5173>

EDUCATION:

- PhD Energy Engineering (Hydraulic Systems) School of Computing and Engineering University of Huddersfield UK 2018. Thesis title: Experimental and Numerical Investigations on the Cavitation Phenomenon in a Centrifugal Pump.
- M.Sc: Mechanical Engineering (Fluid Dynamics) 2001. Machines and Equipment Department, University of Technology Baghdad Iraq. Thesis title: A study on using partial thermal storage system in a cold stores system for preservation of white meat (Poultry)
- B.Sc: Mechanical Engineering 1998. Mechanical Engineering Air—Conditioning and Refrigeration Department, University of Technology Baghdad—Iraq.

ACADEMIC HONORS AND AWARDS:

Handwritten signature and official stamp of the Mustansiriyah University. The stamp is circular and contains text in Arabic, including the name of the university and the faculty. There is also a handwritten number '13' in the center of the stamp.

- 2001 –2003: Ministry of Industry and Minerals State Battery Manufacturing Company in Babylon factory no. 2 Baghdad—Iraq.
- 2003 –2006: Ministry of Industry and Minerals State Company for Electrical Industries in the Research Department Baghdad—Iraq.
- 2006- Continues: Ministry of Higher Education & Scientific Research. AL-Mustinsriya University Faculty of Engineering Mechanical Engineering Department.
- Awarded more than 30 thanks and appreciation.

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Drawing Engineering	
Mathematics I	
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PROFESSIONAL AFFILIATIONS:

- Member of the Iraqi Engineers Union.
- Member of the Mustansiriyah University teaching staff

PUBLICATIONS:

- Al-Obaidi, Ahmed, Pradhan, Suman, Asim, Taimoor, Mishra, Rakesh and Zala, Karina (2014) Numerical studies of the velocity distribution within the volute of a centrifugal pump. In: 27th International Congress of Condition Monitoring and Diagnostic Engineering Management, 16th - 18th September 2014, Brisbane, Australia.
- F. Mohamed, K Park, S Pradhan, R Mishra, K Zala, T Asim, A Al-Obaidi. The effect of blade angles of the vertical axis wind turbine on the output performance. In: 27th International Congress of Condition Monitoring and Diagnostic Engineering Management, 16th - 18th September 2014, Brisbane, Australia.
- A Ramadan, Basim H., Abas, K. Studying the effect of number and location of loading of chilled water pipes used to cool the inside walls of building on the distribution of temperature on the inner surface. Journal of Wassit for Science and Medicine 6 (ISSN 58161992), PP.1-15.
- AR Mohsin, BH Abood. Simulation analysis of refrigerant flow inside capillary tube for two phase flow. Gulf University Journal: Engineering and Computer Engineering Division.
- ARM Al-Obaidi. Experiential and Numerical Investigations on the Cavitation Phenomenon in a Centrifugal Pump. University of Huddersfield UK 2018.

The bottom left of the page features a handwritten signature in black ink. To its right is a circular official stamp of the Mustansiriyah University Faculty of Engineering, Mechanical Engineering Department. The stamp contains the university's name in Arabic and English, along with a central emblem and the date of the document.

- Al-Obaidi, A. R. (2019). Experimental Investigation of the Effect of Suction Valve Opening on the Performance and Detection of Cavitation in the Centrifugal Pump Based on Acoustic Analysis Technique. *Archives of Acoustics*, 44(1), 59-69.
- Al-Obaidi, A. R., & Towsyfyhan, H. (2019). An Experimental Study on Vibration Signatures for Detecting Incipient Cavitation in Centrifugal Pumps Based on Envelope Spectrum Analysis. *Journal of Applied Fluid Mechanics*, 12(6), 2057-2067.
- Al-Obaidi, A. R. (2019). Effects of different turbulence models on three-dimensional unsteady cavitating flows in the centrifugal pump and performance prediction. *International Journal of Nonlinear Sciences and Numerical Simulation*, 20(3-4), 487-509.
- Al-Obaidi, A. R. (2019). Monitoring the performance of centrifugal pump under single-phase and cavitation condition: A CFD analysis of the number of impeller blades. *Journal of Applied Fluid Mechanics*, 12(2), 445-459.
- Al-Obaidi, A. R. (2019). Investigation of effect of pump rotational speed on performance and detection of cavitation within a centrifugal pump using vibration analysis. *Heliyon*, 5(6), e01910.
- Al-Obaidi, A. R. (2019, July). Numerical Investigation of Flow Field Behaviour and Pressure Fluctuations within an Axial Flow Pump under Transient Flow Pattern Based on CFD Analysis Method. In *Journal of Physics: Conference Series* (Vol. 1279, No. 1, p. 012069). IOP Publishing.
- Mohammed, A. A., Al-Obaidi, A. R., & AlTabbakh, A. A. (2019, July). Experimental investigation of using kerosene-biodiesel blend as an alternative fuel in diesel engines. In *Journal of Physics: Conference Series* (Vol. 1279, No. 1, p. 012022). IOP Publishing.
- Al-Obaidi, A. R. (2019). Investigation of fluid field analysis, characteristics of pressure drop and improvement of heat transfer in three-dimensional circular corrugated pipes. *Journal of Energy Storage*, 26, 101012.
- Al-Obaidi, A. R. (2020). Detection of cavitation phenomenon within a centrifugal pump based on vibration analysis technique in both time and frequency domains. *Experimental Techniques*, 44(3), 329-347.
- Al-Obaidi, A. R. Numerical Investigations of Transient Flow Characteristic in Axial Flow Pump and Pressure Fluctuation Analysis Based on the CFD Technique. *Journal of Engineering Science and Technology Review* 12 (6) (2019) 70 – 79.
- Al-Obaidi, A. R., & Sharif, A. (2021). Investigation of the three-dimensional structure, pressure drop, and heat transfer characteristics of the thermohydraulic flow in a circular pipe with different twisted-tape geometrical configurations. *Journal of Thermal Analysis and Calorimetry*, 143(5), 3533-3558.

علي
معاون العميد
للشؤون العلمية والدراسات العليا



- Al-Obaidi, A. R., & Mohammed, A. A. (2019). Numerical Investigations of Transient Flow Characteristic in Axial Flow Pump and Pressure Fluctuation Analysis Based on the CFD Technique. *Journal of Engineering Science & Technology Review*, 12(6).
- Al-Obaidi, A. R., & Mishra, R. (2020). Experimental investigation of the effect of air injection on performance and detection of cavitation in the centrifugal pump based on vibration technique. *Arabian Journal for Science and Engineering*, 45(7), 5657-5671.
- Al-Obaidi, A. R. (2020). Influence of guide vanes on the flow fields and performance of axial pump under unsteady flow conditions: Numerical study. *Journal of Mechanical Engineering and Sciences*, 14(2), 6570-6593.
- Al-Obaidi, A. R. (2020). Analysis of the flow field, thermal performance, and heat transfer augmentation in circular tube using different dimple geometrical configurations with internal twisted-tape insert. *Heat Transfer*, 49(8), 4153-4172.
- AL-OBAIDI, A. R. (2020). Experimental Comparative Investigations to Evaluate Cavitation Conditions within a Centrifugal Pump Based on Vibration and Acoustic Analyses Techniques. *Archives of Acoustics*, 45(3), 541-556.
- Al-Obaidi, A. R. (2020). Experimental Investigation of Cavitation Characteristics within a Centrifugal Pump Based on Acoustic Analysis Technique. *International Journal of Fluid Mechanics Research*, 47(6).
- Al-Obaidi, A. R. (2020). Analysis of the Effect of Various Impeller Blade Angles on Characteristic of the Axial Pump with Pressure Fluctuations Based on Time-and Frequency-Domain Investigations. *Iranian Journal of Science and Technology, Transactions of Mechanical Engineering*, 1-19.
- Al-Obaidi, A. R., & Jaffal, H. M. (2021). Influence of Various Types of Twisted Tape inserts on Hydrody-namic, Pressure Drop and Thermal Heat Performance in Heat Ex-changers: A Review Study. *Anbar Journal of Engineering Sciences*, 9(1).
- Al-Obaidi, A. R. (2021). Study the influence of concavity shapes on augmentation of heat-transfer performance, pressure field, and fluid pattern in three-dimensional pipe. *Heat Transfer*.
- Jaffal, H. (2021). Augmentation of Fluid Flow and Heat Transfer Characteristics in corrugated Channel: A Review Study: corrugated Channel A Review Study. *Diyala Journal of Engineering Sciences*, 14(1), 31-56.
- Jaffal, H. M., Ghani, I. A., & Al-Obaidi, A. R. (2021). The effect of interruptions on thermal characteristics of corrugated tube. *Case Studies in Thermal Engineering*, 25, 100910.
- Alhamid, J., & Al-Obaidi, A. R. (2021, March). Effect of Concavity Configuration Parameters on Hydrodynamic and Thermal Performance in 3D Circular Pipe using Al₂O₃ Nanofluid Based on CFD Simulation. In *Journal of Physics: Conference Series* (Vol. 1845, No. 1, p. 012060). IOP Publishing.



 The image shows a handwritten signature in black ink over a circular official stamp. The stamp contains text in Arabic, including the name 'Al-Obaidi, A. R.' and the title 'مدير مركز البحوث والدراسات العلمية' (Director of the Scientific Research and Studies Center). The stamp also includes the year '2021' and the number '157'.

- Alhamid, J., & Al-Obaidi, R. A. (2021, March). Flow Pattern Investigation and Thermohydraulic Performance Enhancement in Three-Dimensional Circular Pipe under Varying Corrugation Configurations. In Journal of Physics: Conference Series (Vol. 1845, No. 1, p. 012061). IOP Publishing.
- Al-Obaidi, A. R., & Chaer, I. (2021). Study of the Flow Characteristics, Pressure Drop and Augmentation of Heat Performance in a Horizontal Pipe with and without Twisted Tape Inserts. Case Studies in Thermal Engineering, 100964.
- Al-Obaidi, A. R. Investigation of the flow, pressure drop characteristics, and augmentation of heat performance in a 3D flow pipe based on different inserts of twisted tape configurations. Heat Transfer.

Also, I have different papers in acceptance and under review process

PROFESSIONAL DEVELOPMENT

- Certificate of Achievement for having successful graduated on time in 2018. University of Huddersfield.
- Certificate of Achievement for successfully passed the Teaching Assistant Preparation Programme (TAPP) in 2018. University of Huddersfield.
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- Certificate of participation, Numerical Investigation of Fluid Flow, Characteristics of Thermal Performance and Enhancement of Heat Transfer of Corrugated Pipes with Various Configurations., 2nd International Conference on Trends in Mechanical and Aerospace (TMAE) Washington, USA, September 25-27, 2020.
- Certificate of participation, First Online Scientific Conference for Graduate Engineering Students - College of Engineering, Mustansiriyah University, Baghdad-Iraq, June (2020).
- I have good experience in different software and programmers such as Microsoft office, Minitab, CFD, Signal processing, Tecplot.