

CURRICULUM VITAE

Dr. Arkan Fawzi Saeed Aziz

Assistant Professor

College of Engineering

Mechanical Engineering Department

2020 - 2021

CURRICULUM VITAE

Forename: Arkan
Middle name: Fawzi
Surname: Saeed
Date of Birth: 25-July-1970
Place of Birth: Baghdad-Iraq
Nationality: Iraqi
Sex: Male
Marital Status: Married
Date of Academic Employment: Feb-2009
Academic States: Asst. Prof.
Specialization: Mechanical Engineering
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**Education:**

1. B.Sc. in Mechanical Engineering / Automotive Engineer / Mechanical Engineering Department / University of Technology-Baghdad, (1993), (Ranked 1st of the graduated group).
2. High Diploma in Mechanical Engineering / Thermal Power / Jordan University of Science and Technology-Jordan, (1996).
3. M.Sc. in Mechanical Engineering / Power Generation / Mechanical Engineering Department / University of Technology-Baghdad, (2000).
4. Ph.D. in Mechanical Engineering / Power / Mechanical Engineering Department / University of Al-Mustansiriyah-Baghdad, (2007).

Language:

Language	Reading	Writing	Talking
English	Excellent	Excellent	Excellent
Arabic	Excellent	Excellent	Excellent
Kurdish	Accepted	Accepted	Accepted
Any Other Language			

Experience:

No.	University or Institute	Position	From	To
1.	Al-WAHAJ company for lighting and furniture. Baghdad-Iraq	Maintenance of Machines and Vehicles	June-1992	Sept.-1992
2.	Al-MEETHAQ company for automotive spare parts production Limited. Baghdad-Iraq	Supervising the machines and tools maintenance.	June-1993	Sept.-1994
3.	ZAYOUNA company for producing ready concrete. Baghdad-Iraq	Pursuing the maintenance of vehicles and heavy machines.	Oct. -1993	Sept. -1994
4.	Jordan University of Science and Technology / Mechanical Engineering Dept. / Jordan.	Teaching Assistance in Computers Laboratory.	2 nd semester 1994-1995	2 nd semester 1995-1996
5.	Engineering & Technology company for contracts. Amman-Jordan	Mechanical Site Engineer in <i>Al-KARAMA</i> Dam project.	March-1997	May-1997
6.	Ministry of Higher Education and Scientific Research / University of Technology / Mechanical Engineering Dept. / Baghdad-Iraq	Teaching Assistance in Engineering Design	Oct.-1998	June-1999
7.	Ministry of Higher Education and Scientific Research / University of Technology / Mechanical Engineering Dept. / Baghdad-Iraq	Teaching Assistance in Heat Transfer Lab. And I.C. Engines Lab.	Oct.-1999	June-2000
8.	Ministry of Electricity / General Directorate of Electricity Energy Production-Middle Region (GEEP)	Training as a Shift Engineer/Baghdad South Thermal Power Station	April-2000	Dec.-2000
9.		In charge of the Studies and Researches division / Research and Development Dept.	Dec.-2000	Sept.-2001
10.		In charge of the planning division and maintenance programs in Baghdad South Power Station.	Sept.-2001	Sept.-2007

No.	University or Institute	Position	From	To
11.	Ministry of Electricity / Electricity Energy Production Office	Assistant Chief Engineers / Steam Power Plant Dept.	Sept.-2007	Feb -2009
12.	Ministry of Higher Education and Scientific Research / University of Duhok / Civil Engineering Dept. / Duhok - Iraq	Lecturer	Feb – 2009	Dec – 2012
13.	Supervising the Design and installation of Mechanical work and equipments of the Duhok University Congress Center	Supervisor	Feb-2010	Oct-2011
14.	Ministry of Higher Education and Scientific Research / University of Duhok / Architectural Engineering Dept. / Duhok - Iraq	Lecturer	Dec – 2012	2015
15.	Ministry of Higher Education and Scientific Research / University of Duhok / Mechanical Engineering Dept. / Duhok - Iraq	Lecturer	2015	2018
16.	Ministry of Higher Education and Scientific Research / University of Duhok / Mechanical Engineering Dept. / Duhok - Iraq	Assistant Professor / Head of Mechanical Eng. Dept.	2018	Till now

Training Programs & Workshops:

No.	Program	Place	Period	Year
1.	Training programs on <i>MS-DOS</i> and <i>WINDOWS-98</i> with Excellent degree	Al-HARITH Institute for Computer Sciences- Baghdad-Iraq	1-Jan to 5-Feb	2000
2.	Training as a Shift Engineer	Baghdad South Thermal Power Station-Baghdad-Iraq	1-April to 31-Dec	2000
3.	Training program on Boilers and Turbines inspections	Continuous Education Center / University of Technology, Baghdad-Iraq.	31-March to 7-April	2001
4.	Training program on WINDOWS-NT and Networks	Baghdad Training Center/Ministry of Electricity	2-7, Oct.	2004
5.	OJT Course in the TURBINE SYSTEM of South Baghdad Thermal Power Plant	Washington Group International / SBPP- Baghdad-Iraq	13-March	2007
6.	Training program on <i>Maintenance Management within Power Plants</i>	Gulf Region Division (GRD) Amman-Jordan	6-10, Jan	2008
7.	LEAP Introductory Training Course / Workshop	Energy Fusion Cell / Ministry of Planning	5-14, Feb	2008
8.	Course in Teaching Methods for Higher Education	Training and Development Center / University of Duhok	16-April to 16-June	2011
9.	Preparation of Lecture's Course book / Workshop	Directorate of Quality Assurance / Presidency of Duhok University	21-22, Sept	2011
10.	Leading University Institutions as Learning Organizations / Workshop	Culture Centre / Presidency of Duhok University	16-Nov	2011
11.	The University Staff Development Program / Workshop	Khani Hall / Presidency of Duhok University	17-Nov	2011
12.	Staff Development Training for Medium-Level Leaders of the University of Duhok, Kurdistan / Iraq / Workshop sponsored by DAAD	Duhok Congress Center	24-29, Nov	2012
13.	EndNote X4 Workshop	Duhok – Iraq	14 – 15 th , April	2013
14.	3 rd Workshop on Quality Assurance in Higher Education “Review of Quality Improvement Plans of Pilot Colleges of Engineering”	Amman-Jordan	27-29, October	2013
15.	Operation and Maintenance of Water Treatment Plant Units Including Equipment and Pumps. [Trainer]	Duhok – Iraq	27 – 28, Dec	2017

Conferences & Symposiums:

	Conference	Place	Period	Year
1.	3 rd Annual Conference for Postgraduate Studies Researches	University of Technology / Baghdad-Iraq	25-Oct.	1999
2.	1 st National Conference in Computers, Communications, and Control and Systems Engineering	University of Technology / Baghdad-Iraq	12-13-Dec	2000
3.	1 st National Conference for Mechanical Engineering, Minerals, and Materials Engineering	University of Al-Koufa / Al Najaf-Iraq	2000	2000
4.	2 nd National Conference for Mechanical Engineering, Minerals, and Materials Engineering	University of Al-Koufa / Al Najaf-Iraq	2-4, April	2002
5.	5 th Jordan International Conference of Mechanical Engineering	Amman-Jordan	26-28, April	2004
6.	Revitalizing Research in Kurdistan International Conference	Erbil – Iraq	14-16, Dec	2010
7.	Symposium on Modern Central Air-Conditioning Systems by: LG Comp.	Erbil-Iraq	18-April	2011
8.	Symposium on Modern Central Air-Conditioning Systems by: Mekar & McQuay Comp.	Erbil-Iraq	19-22, Sept.	2011
9.	Symposium on Modern Central Air-Conditioning Systems by: SAMSUNG Comp.	Erbil-Iraq	19-20,Oct.	2011
10.	1 st Engineering Education Conference	Duhok-Iraq	17-19, April	2012
11.	3 rd International Planning Conference	Duhok – Iraq	30,Sept – 3,Oct	2012
12.	2 nd International Conference of the College of Engineering-UoD: Recent Innovations in Engineering (ICRIE)	Duhok – Iraq	26-27, April	2017
13.	3 rd International Conference of the College of Engineering-UoD: Recent Innovations in Engineering (ICRIE 2020)	Duhok – Iraq	9-10, Sept.	2020

Additional Information:

1. Member in the Iraqi Engineers Union since 1993.
2. Passing the Test of English as a Foreign Language on 7-August-1993 in Baghdad-Iraq.
3. A good knowledge in using *MS-Office 97/2003/2007*, and programming in *FORTRAN-77/90* and *QuickBasic* languages.
4. Establishing a Combustion Operations Laboratory for postgraduate studies in the University of Technology / Baghdad-Iraq, under the supervision of Dr. M. N. Hamid (1998).
5. Member in the Consultative Committee for the cooperation activation between the public sectors and the Iraqi Universities in GEEP-Middle region.
6. Establishing a Refrigeration and Air-Conditioning Laboratory for postgraduate studies in the University of Technology / Baghdad-Iraq, under the supervision of Dr. M. N. Hamid (2006).
7. Member in the Kurdistan Engineers Union (Consultant) since (2010).
8. Member in the Kurdistan Universities and Institutes Teachers Syndicate since (2010).
9. Member in the Research Center/ Faculty of Engineering and Applied Science/University of Duhok (2011).
10. General coordinator of Quality assurance of the Faculty of Engineering and Applied Science / University of Duhok (From 2011 – 2014).
11. Member in the external committee to follow up the Accreditation reports of the Faculty of Engineering and Applied Sciences / University of Duhok (2012).
12. Member in the Accreditation Committee of the Faculty of Engineering and Applied Sciences / University of Duhok (2012).
13. Member in the School of Engineering Committee for studying the possibilities of Opening Mechanical Engineering Department in the Faculty of Engineering and Applied Sciences / University of Duhok (2012).
14. Member in the School of Engineering Committee for Registration and acceptance planning of registration for new students each academic year (2012).

15. Member in the Quality Assurance System developer team on the University of Duhok website, in order that the Quality Assurance operation will be online.
16. General coordinator of Quality assurance of the Architectural Engineering department / college of Engineering / University of Duhok 2014-2015.
17. Member in the Kurdistan Teachers Union since 2014.
18. Member in the committee for granting the scientific titles, College of Engineering, University of Duhok, for the academic years; 2019-2020, and 2020-2021.
19. Establishing a Heat Transfer Laboratory for undergraduate studies in the University of Duhok / College of Engineering / Mechanical Engineering Department, Duhok, Kurdistan Region-Iraq (2020-2021).

Teaching Experience (Undergraduate Studies):

Subject	Place	Period
1- Engineering Mechanics	Civil Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2008 – 2009
		2009 – 2010
2010 – 2011		
2011 – 2012		
2012 - 2013		
	Water Resources Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2008 – 2009 2009 – 2010
2- Engineering Mechanics And Strength of Materials	Architectural Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2008 – 2009
3- Engineering Mechanics and Thermodynamics	Electrical And Computers Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2008 – 2009
		2009 – 2010

4- Fluid Mechanics	Civil Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2009 – 2010 2010 – 2011 2011 – 2012
5- Building Engineering Services / HVAC Systems	Architectural Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2012-2013
6- Thermodynamics	Earth Science and Geo-informatics / Faculty of Engineering and Applied Sciences / UoD.	2012 - 2013
7- Engineering Mechanics	Refrigeration and Air-conditioning Eng. Dept. / University of Polytechnic.	2013-2014
8- Engineering Mechanics And Strength of Materials	Architectural Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2013-2014
9- Engineering Mechanics	Mechanical Eng. Dept. / college of Engineering/ University of Duhok	2014-till now
10- Fluid Mechanics	Mechanical Eng. Dept. / college of Engineering/ University of Duhok	2016-2017
11- Internal Combustion Engines	Mechanical Eng. Dept. / college of Engineering/ University of Duhok	2017-till now

Teaching Experience (Postgraduate Studies):

Subject	Place	Period
1- Advanced Mathematics	Water Resources Eng. Dept. / Faculty of Engineering and Applied Science / University of Duhok	2009 – 2010

Published Studies and Researches:

1. *"Laminar Burning Velocity of Hydrogen – Air Mixtures"*, Journal of Engineering and Development, College of Engineering, University of Al-Mustansiriyah, Vol. 6, pp:106-119, (2002).
2. *"Effect of Initial Temperature on Flame Propagation through Tube for (Methane, Propane, LPG and Butane)-Air Mixtures"*, M.Sc. Thesis, Mechanical Engineering Dept., University of Technology, (2000).
3. *"Effect of Slope Angle of an Annular Finned Cylinder on Natural Heat Transfer in an Open Medium"*, Technician Journal, Commission of Technical Institutes, Baghdad-Iraq, (29-Nov.-2000).
4. *"The Effect of Initial Temperature on Burning Velocity of Methane, Propane, LPG and IsoButane – Air Mixtures "*, Engineering Journal, University of Qatar, Vol.14, pp: 177-190, (2001).
5. *"The Use of Ceramic Surfaces in an Evaporative Cooling"*, 2nd National Conference for Mechanical Engineering, Minerals, and Materials Engineering / University of Al-Koufa / Al Najaf-Iraq, (April-2002).
6. *"The Effect of Initial Temperature on Burning Velocity of Hydrogen-Air Mixtures"*, 5th Jordan International Conference of Mechanical Engineering / Amman-Jordan, (26-28, April, 2004).
7. *"The Effect of Initial Temperature on Burning Velocity of Hydrogen-Air Mixtures"*, Engineering and Technology Journal / University of Technology, Vol. 25, No. 2, pp:183-193, (2007).
8. *"The Effect of Increasing Capacity by Sub-Cooling for Air-Cooled Refrigeration Systems"*, Ph.D. Thesis, College of Engineering, University of Al Mustansiriyah, Baghdad-Iraq, (2006).

9. "The Effect of Increasing Sub-Cooling on Air-Cooled A/C System's Capacity", Journal of Engineering and Development, College of Engineering, University of Al-Mustansiriyah, Vol. 13, No.1, March (2009).
10. "Stress Analysis of Standard Truck Chassis during Ramping on Block Using Finite Element Method", ARPN Journal of Engineering and Applied Sciences (ISSN 1819-6608), www.arpnjournals.com, Vol. 7, No.7, July (2012).
11. "مقارنة المناهج الدراسية لبعض الجامعات العراقية بالمنهج القياسية العالمية (ABET) (المرحلة الثالثة والرابعة للهندسة الميكانيكية) وأثرها في تطوير التعليم الهندسي في جامعات إقليم كردستان- العراق"، بحث مقبول في مؤتمر التعليم الهندسي الأول في جامعة دهوك للفترة 17-19 من شهر نيسان-(2012).
12. "Effect of Initial Temperature on Burning Velocity of Methanol and Ethanol – Air Mixtures", ARPN Journal of Engineering and Applied Sciences (ISSN 1819-6608), www.arpnjournals.com, Vol. 7, No.10, October (2012).
13. "Effect of Hydrogen Addition on Flame Propagation Characteristics Through Tube of Methane-Air Mixtures Using Optical Technique", Journal of University of Duhok (eISSN 2521-4861/pISSN 1812-7568), <https://doi.org/10.26682/sjuod.2017.20.1.41>, Vol. 20, No.1, (Pure and Eng. Sciences), (2017).
14. "Effect of Naphtha on Blending Alcohol Diesel Fuel on C.I. Engine Performance", Journal of University of Duhok (eISSN 2521-4861 / pISSN 1812-7568), <https://doi.org/10.26682/sjuod.2017.20.1>, Vol. 20, No.1, (Pure and Eng. Sciences), (2017).
15. "Design, and Manufacturing a Small-Scale Wind Tunnel for Heat Transfer Analysis of Flat Plate and Finned Plate Heat Sinks", Journal of University of Duhok (eISSN 2521-4861 / pISSN 1812-7568), <https://doi.org/10.26682/csjuod.2020.23.2.54>, Vol. 23, No.2, (Special Issue), (2020).

Discussions of M.Sc. Thesis					
	Title of Thesis	Place	Student's Name	Date of Discussion	Position in committee
1	Numerical and Experimental Investigation of Hybrid PV/Thermal Collector System in Duhok Climate	College of Engineering / Duhok Polytechnique University	Semyan Ameer Khalid	955 8/9/2019	Scientific Evaluator
2	Aviation and Aerospace Technology	National Aviation University / Ukraine	Karzan Rifaat Mohammed	94 3/10/2019	Chairman
3	Experimental Investigation of Air-Water Flow Patterns through Vertical 90-Degree Bend Upstream to Horizontal Flow Line	College of Engineering/ University of Zakho	Veyan Adam Mousa	3/399 29/9/2019	Chairman
4	Study of Saving Thermal Energy Using Local Mixed Phase Change Materials	College of Engineering / Salahaddin University- Erbil	Hawzheen Abdulrahman Ibrahim	1143/54/7 17/8/2020	Examination Member
5	Experimental comparison between wire mesh and electrical capacitance tomography sensors to predict a two-phase flow behavior and patterns in inclined pipe	College of Engineering/ University of Zakho	Ali Ibrahim Hameed	151/13 13/7/2021	Examination Member

Discussions of Ph.D. Thesis					
	Title of Thesis	Place	Student's Name	Date of Discussion	Position in committee
1	Energy Extraction from A Concentrated Photovoltaic Module with A Hybrid (Air+Water) Cooling System	Technical College of Engineering / Duhok Polytechnic university	Sewar Abdulsalam Zuber	25/4/2021	Scientific Evaluator

Teacher's work:

- I was appointed on 8/4/2000 in the commission of Electricity in Baghdad / General Directorate of electric power production - Central Region / Department of power stations, and I have submitted a request for the purpose of training for the operation of electric stations as a shift engineer, and was coordinated to the South Baghdad Thermal Power Station.
- I was assigned to the headquarters of the Directorate / Research and Development Unit. I was assigned the responsibility of the Technical Studies Division, where I worked with the head of the unit to establish this division in order to work on the technical problems facing all the stations (thermal - gas and hydroelectric), (2000).
- We have worked in the mechanism of cooperation between universities and the industrial sector, and we were then the pioneers in this area and our efforts have resulted in a conference to develop the work of university professors with the productive and industrial sector.
- I completed my Ph.D. study while performing the part-time job, and I got it in 2007.
- I have a good experience in the practical side of the plants and laboratories in terms of mechanical and electrical.
- Served as a responsible for the maintenance of thermal power stations at the Ministry of Electricity / Production Department, Baghdad-Iraq.
- Approval was granted for the transfer of my services to the Ministry of Higher Education and Scientific Research in Iraqi Kurdistan and was coordinated to the University of Duhok - College of Engineering - Civil Engineering Department, (2008-2009).
- I got the scientific title of (Lecturer) at the college of Engineering - University of Duhok in (2009).
- I was assigned as a general coordinator of quality assurance of the Faculty of Engineering and Applied Sciences, University of Duhok, for the period (2011-2014).
- Worked as a member of several faculty committees, and appointed to the Department of Architecture in the same faculty, 2013.
- Worked as a rapporteur and quality assurance coordinator in the Department of Mechanical Engineering, College of Engineering - University of Duhok, 2016-2018.
- I got the scientific title promotion as Assistant Professor at the college of Engineering - University of Duhok in (2018).
- Currently, I am holding the position of Head of the Mechanical Engineering Department at the College of Engineering at the University of Duhok, since 2018-2021.

Academic background of the teacher:

- Worked as a teaching assistant while studying for a higher diploma at Jordan University of Science and Technology, at the Mechanical Engineering Department/ computer labs, 1995-1996.
- Worked as a teaching assistant during master's degree for various materials including engineering design, heat transfer laboratories and internal combustion engines, 1999-2000.
- Establishing the Combustion Operations Laboratory at Master's Degree in Machinery and Equipment Department / University of Technology in Baghdad, 2000.
- Establishing the Air Conditioning and Refrigeration Laboratory at Ph.D.'s Degree in the Mechanical Engineering Department / Al-Mustansiriyah University in Baghdad (the laboratory was established at the University of Technology as a requirement for the completion of the practical doctoral research), 2004-2007.
- Teaching as a lecturer after moving to the University of Duhok - College of Engineering, the Engineering Mechanics of the engineering departments (civil - water resources - architectural - electricity and computers), 2008-2010.
- Currently, teaching Engineering Mechanics/ first stage, and Fluid mechanics / second stage, and Internal Combustion Engines / third stage, in Mechanical Eng. Department.
- Accomplishing researches in many fields and within the general and specific specializations (Internal and External combustion - heat transfer - stress analysis of engineering installations), in addition to some of the consultancy work assigned to us by the Engineering Advisory Office of the University of Duhok.
- Evaluating several research papers for publication and scientific promotion.
- Chairing and membership of the M.Sc. and Ph.D. dissertation discussion committees.

Thankfulness and Appreciation:

<i>No</i>	<i>Place</i>	<i>Issue No and date Roles and duties</i>	<i>Reason</i>
1	University of Technology / Presidency office	1999	Thanking for active participation in the Third Graduate Conference (1999)
2	University of Duhok / Faculty of Engineering and Applied Sciences / Dean office	2013	Thanking for excellence in performance as a lecturer in Quality Assurance Program (2013)
3	University of Duhok / College of Engineering / Dean office	2017	Thanking for being one of the Reviewers of the papers submitted to the 2 nd International Conference of the College of Engineering / UoD: Recent Innovations in Engineering (ICRIE), 26th – 27th. April, (2017).
4	University of Duhok / College of Engineering / Dean office	2017	Thanking for being one of the Revisers of the papers submitted to the 2 nd International Conference of the College of Engineering / UoD: Recent Innovations in Engineering (ICRIE), 26th – 27th. April, (2017).
5	University of Zakho / Duhok Polytechnique University / presidents of both universities	1-April-2019	Thanking for being one of the Reviewers of the papers submitted to the 2 nd International Conference on Advanced Science and Engineering 2019: ICOASE - IEEE, 2 nd – 4 th . April, 2019.
6	University of Duhok / College of Engineering / Dean office	376 23/4/2019	Thanking and appreciation from Dean of college of Engineering / University of Duhok in Quality Assurance program of the college 2017-2018.
7	University of Duhok / Presidency office	1387 28/1/2020	Thanking and appreciation from the president of the University of Duhok in Quality Assurance program of the college 2018-2019.
8	University of Duhok / College of Engineering / Dean office	256 2020	Thanking for being one of the Reviewer of the papers submitted to the 3 rd International Conference of the College of Engineering /UoD: Recent Innovations in Engineering (ICRIE), 9 th – 10 th . Sept, 2020.
9	University of Duhok / College of Engineering / Dean office	9-10/Sept. 2020	Thanking for being Track Editor in the 3 rd International Conference of the College of Engineering /UoD: Recent Innovations in Engineering (ICRIE), 9 th – 10 th . Sept, 2020.
10	University of Duhok / College of Engineering / Dean office	9-10/Sept. 2020	Thanking for being a member of the Scientific Committee in the 3 rd International Conference of the College of Engineering /UoD: Recent Innovations in Engineering (ICRIE), 9 th – 10 th . Sept, 2020.
11	University of Duhok presidency/ Directorate of Administration	1387 28/1/2020	Thanking and appreciation from President of the University of Duhok in Quality Assurance program of the college 2018-2019.
12	University of Duhok / College of Engineering	137	Thanking and appreciation from Dean of college of Engineering / University of Duhok in teaching the

	/ Dean office	26/7/2020	students with online process due to pandemic Covid-19.
13	University of Duhok presidency/ Journal of University of Duhok	28/3/2021	Thanking and appreciation from the Journal of University of Duhok cheif editor for evaluating a scientific paper.