Curriculum Vitae



C.V.

Professor Ahmad Salameh Iial Awad
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Academic Profile

Professor Ahmad S. Awad is a distinguished academic specializing in Mechanical Engineering with a concentration in Thermal Sciences. His scholarly pursuits encompass energy systems, combustion, HVAC, strength of materials, and environmental studies. Over the course of his career, he has significantly contributed to academia through teaching, research, and administrative leadership

Education

- **Ph.D. in Mechanical Engineering**
  University of Hertfordshire, United Kingdom — **2006**
  Dissertation: *Stratified Flow in the Built Environment*
- **M.Sc. in Mechanical Engineering**
  University of Jordan, Jordan — **1990**
  Thesis: *Theoretical Study of Transitional Boundary Layer over Smooth and Rough Surfaces*
- **B.Sc. in Mechanical Engineering**
  University of Jordan, Jordan — **1987**

Practical Experience

- **1991 – 1995**
  Instructor, Mechanical Engineering Department, Tafilah College / Ministry of Higher Education
- **1995 – 1996**
  Assistant Dean for Academic Affairs, Tafilah College
- **1996 – 1999**
  Cultural Attaché, Jordan Embassy, Washington, D.C., USA
- **1999 – 2003**
  Counselor, Ministry of Higher Education, Jordan
- **2003 – 2006**
  Researcher, University of Hertfordshire, United Kingdom
- **Feb 2007 – Aug 2021**
  Faculty Member, Mechanical Engineering Department, Al-Balqa Applied University
- **Aug 2021 – Present**
  Dean, Faculty of Engineering Technology, Al-Balqa Applied University
- Member of the University Council at Al-Balqa Applied University for six years.

- Member of the Faculty Council at the Faculty of Engineering Technology for three years

University Courses Taught:

Course Name	Course Number	Level	Semester / Year	Number of Students
Hydraulic Machines	**30128321**	**3rd year**	**many years/ Last at 2nd semester 2019/2020**	**65**
Hydraulic and pneumatic systems	**30105427**	**3rd year**	**many years/ Last at 2nd semester 2019/2020**	**33**
Air-conditioning technology	**30128422**	**3rd year**	**many years/ Last at 2nd semester 2019/2020**	**75**
Refrigeration Systems	**30146201**	**4th year**	**many years/ Last at 2nd semester 2018/2019**	**79**
Statics	**30128321**	**2nd year**	**many years/ Last at 2nd semester 2019/2020**	**77**
Fluid Mechanics	**30128322**	**2rd year**	**many years/ Last at 1st semester 2018/2019**	**191**
Engineering Drawing	**30129203**	**2rd year**	**many years/ Last at 1st semester 2018/2019**	**63**
Plumping Systems Design	**30129522**	**5th year**	**many years/ Last at 2nd semester 2017/2018**	**208**
Gas Dynamics	**30128421**	**5th year**	**many years/ Last at 1st semester 2016/2017**	**109**
Power Plant II	**30128424**	**4th year**	**many years/ Last at 2nd semester 2015/2016**	**70**
Applied Heat Transfer	**30128526**	**5th year**	**many years/ Last at 2nd semester 2014/2015**	**78**
Special Topics in Mechanical Engineering	**30129535**	**5th year**	**many years/ Last at 1st semester 2014/2015**	**54**
Energy Conversion and Renewable	**30128521**	**5th year**	**many years/ Last at 2nd**	**36**

Energy Technology			**semester 2013/2014**	
Dynamics	**30129211**	**2nd year**	**many years/ Last at 2nd semester 2012/2013**	**235**
Strength of Materials	**30129212**	**2nd year**	**many years/ Last at Summer semester 2012/2013**	**140**
Theory of Machines	**30129311**	**2nd year**	**Summer semester 2013/2014**	**104**

Honors, Academics Awards and Patent:			
Title	**Offering Agency and its website**	**Year**	**Country**
Scholarship awarded by Al-Balqa Applied University in Jordan to cover Ph.D degree expenses for four years.	**Al-Balqa Applied University https://www.bau.edu.jo/**	**٢٠٠٣**	**Jordan**

Meeting / Conferences:				
Meeting / Conference Title	**Contribution Title**	**Organizing Agency**	**Year**	**Website of the Proceeding**
The 5th Global Conference on Renewables and Energy Efficiency for Desert Regions (GCREEDER 2016)	**Organizing Committee & Chairman**	***The University of Jordan***	**2016**	**http://www.aaru.edu.jo/Documents/GCREEDER%202016%20SECOND.**

				pdf
The 6th Global Conference on Renewables and Energy Efficiency for Desert Regions (GCREEDER 2018)	**Organizing Committee & Chairman of two Sessions**	***The University of Jordan***	**2018**	**http://conferences.ju.edu.jo/en/gcreeder2018/Pages/OrganisingCommittee.aspx**
1st International Conference in Mechanical Engineering Sciences and Applications, MESA-IC1, Tafila- Jordan 8-10 October, 2017	**Organizing Committee & Chairman of two Sessions**	***Tafila Technical University***	**2017**	**http://www.ttu.edu.jo/conf/mesa/**
International Conference on Energy, Water & Environment ICEWE 2013	**Smoke flow behavior across a stratified environment**	***The Hashemite University***	**2012**	**http://www.allconferences.com/conferences/2012/20120608142539**
4th Jordanian IIR International Conference on Refrigeration and AIr Conditioning 10/09/2012 - 12/09/2012 Amman, Jordan IIR Conference	**Inner Waves Characteristics in a Stratified Ventilated Environment (The Effect of Momentum Jet)**	***The University of Jordan*** **& The international Institute of Refrigeration**	**2012**	**http://www.proceedings.com/16584.html**
5th Jordanian IIR International Conference on Refrigeration and Air Conditioning. Proceedings: Aqaba, Jordan, March 8-10, 2015.	**The Effect of Duct Input Height on Temperature Stratification in an Adiabatic Closed Environment**	***The University of Jordan*** **& The international Institute of Refrigeration**	**2014**	**http://conferences.ju.edu.jo/en/gcreeder2018/Pages/OrganisingCommittee.aspx**
ASME/JSME 2004 Pressure Vessels and Piping Conference , July 25–29, 2004, San Diego, California, USA	**An Approximate Analytical Solution to Flame Length in a Ventilated Room**	***ASME***	**204**	**https://asmedigitalcollection.asme.org/PVP/proceedings-abstract/PVP2004/46806a/65/305718**

ASME/JSME 2004 Pressure Vessels and Piping Conference , July 25–29, 2004, San Diego, California, USA	**A Model to Predict Stratification in Two Phase Flow in Horizontal Pipes**	**ASME**	**204**	**https://asmedigitalcollection.asme.org/PVP/proceedings-abstract/PVP2004/46806a/35/305699**

Selected Publications:

1. **Paper Title: Experimental Estimation Of Fire Characteristics And Heat Release Rate For Jordanian Natural Wood By Means Of Oxygen Consumption**

Authors	Year	Journal	Volume	Issue	Pages	ISSN	Publisher
Ahmad S. Awad	**2019**	***International Review of Mechanical Engineering (I.RE.M.E.)***	**13**	**5**	**296-304**	***1970 - 8734***	**Praise Worthy Prize**

2. **Paper Title: Experimental Study on Productivity of Different Designs of Solar Stills in Hot Climatic Conditions**

Authors	Year	Journal	Volume	Issue	Pages	ISSN	Publisher
Ahmad S. Awad	2019	*International Review of Mechanical Engineering (I.RE.M.E.)*	13	9	296-304	*1970 - 8734*	Praise Worthy Prize

3. **Paper Title: : Determination Of Mass Loss Rate And Smoke Generated Of Jordanian Hardwood Timber Under Different Flaming Combustion Under Limited Ventilation Environment**

Authors	Year	Journal	Volume	Issue	Pages	ISSN	Publisher
Ahmad S. Awad	2020	*International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)*	13	9	296-304	*Print : 2249-6890 Online : 2249-8001*	Praise Worthy Prize

4. **Paper Title: Practical Design And Testing Of Wind Driven Water Pumping Systems**

Authors	Year	Journal	Volume	Issue	Pages	ISSN	Publisher
Ahmad S. Awad	2019	*International Journal of Mechanical Engineering and Technology (IJMET)*	10	3	1419-1430.	*Print: 0976-6340 and Online: 0976-6359*	IAEME Publication

5. **Paper Title: The Effects Of Air-Fuel Ratio On Automobiles Vibrations**

Authors	Year	Journal	Volume	Issue	Pages	ISSN	Publisher
Sayel M. Fayyad, Abdel Salam Alsabagh, Fadi Alfaqs, Nehad A. Darweesh and Ahmad S. Awad	**2019**	***International Journal of Mechanical Engineering and Technology (IJMET)***	**10**	**4**	**455-463**	***Print: 0976-6340 and Online: 0976-6359***	**IAEME Publication**

6. Paper Title: An Experimental Investigation For The Effect Of Fire-Resistant Coatings On Combustion And Flame Spread Characteristics Over Samples Of Wood							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Abdullah N. Olimat, Ahmad S. Awad and Nabeel Abu Shaban	**2020**	***International Review of Mechanical Engineering (I.RE.M.E.)***	**13**	**9**	**296-304**	***1970 - 8734***	**Praise Worthy Prize**

7. Paper Title: E-Commerce And E-Technology Contribution In Engineering And Scientific Laboratories Equipment's Contracts At Jordanian Universities							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**

Sayel M. Fayyad, Ghazi Almarahleh, Naser Kloub, Ahmad S. Awad , Mohannad O. Alrwashdeh	**2019**	Management Studies	8	1	20-26	2328-2185	**David Publishing**

8. Paper Title: Effect Of Fire Retardant Painting Product On Smoke Optical Density Of Burning Natural Wood Samples							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Abdullah N. Olimat, Ahmad S. Awad, Faisal M. AL-Ghathian	201٧	International Journal of Energy and Power Engineering	١١	٩	984-993	**ISSN** 1934-8983	**Science Publishing Group**

9. Paper Title: Performance of Loaded Thermal Storage Unit With A Commercial Phase Change Materials Based on Energy and Exergy Analysis							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Abdullah N. Olimat, Ahmad S. Awad, Faisal M. Al-Ghathian and Nabeel Abu Shaband	**٢٠١٧**	International Journal of Renewable Energy Development	٦	**3**	**283-290**	Print: 2252-4940; Online: 2716-4519	**Jurusan Teknik Kimia Fakultas Teknik Universitas Diponegoro**

10. Paper Title: Evaluating Potable Water Production Of A Single Slope Solar Still For Waste Water Under Jordan Climate Conditions							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Abdullah. N. Olimat Tayseer Abu Rahma Ahmad S. Awad2 Ayman Alaween	٢٠١٦	Journal of Energy Technologies and Policy	٦	٥	**31-39**	Print: 2224-3232 Online: 2225-0573	**LISTE International Knowledge Sharing Platform**

11. Paper Title: Experimental Study Of Thermal Energy Storage System Using Fin Tube Heat Exchanger And Commercial Phase Change Material							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Abdullah N. Olimat, Faisal M. Al-Ghathian and Ahmad S. Awad	٢٠١٦	Research Journal of Applied Sciences, Engineering and Technology	١٣	٥	394-402	Print: ٢٠٤٠-٧٤٥٩ Online 2040-7467	**Maxwell Scientific Publications**

12. Paper Title: Prediction Of Stratified Flow Temperature Profiles In A Fully Insulated Environment							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**

Ahmad S. Awad, A.N. Olimat, Ahmad Almagableh and Waleed Al-Momani	2015	Research Journal of Applied Sciences, Engineering and Technology	8	3	443-451	Print: ٢٠٤٠-٧٤٥٩ Online 2040-7467	**Maxwell Scientific Publications**

13. Paper Title: Elastic Behavior Of Carbon Nanotubes Reinforced Composites: Micromechanical Modeling							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Ahmad Almagableh Mohammad A. Omari and Ahmad. S. Awad	**٢٠١7**	**Journal of Applied Research on Industrial Engineering**	**4**	**3**	**199–204**	Online: 2538-5100	**JARIE**

14. Paper Title: Analytical prediction of creep behavior in polymeric-based nanocomposites							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Ahmad Almagableh, Raju Mantena Ahmed Alostaz and Ahmed S Awad	2015	**Journal of Reinforced Plastics and Composites**	34	9	*687–695*	*Print 0731-6844. Online 1530-7964*	**SAGE**

15. Paper Title: Modeling Of Creep Behavior For Graphene Filled Vinyl Ester Nano-Composites							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Ahmad Almagableh, P. Raju Mantena, Ahmed S. Awwad, Mahmoud Rababah	2014	**Jordan Journal of Mechanical and Industrial Engineering**	8	6	*343-350*	*1995-6665*	**Hashemite University/ Jordan**

16. Paper Title: Inner Waves Characteristics in a Stratified Ventilated Environment (The Effect of Momentum Jet)							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Ahmed S Awad Abdullah N Olimat	2014	**Journal of Environment and Earth Science**	4	8	*687–695*	*Print* **2224-3216 Online 2225-0948**	**LISTE International Knowledge Sharing Platform**

17. Paper Title: Prediction Of Transitional Boundary Layer Over Smooth And Rough Surfaces							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
B.A.Jubran, M.A.Hamdan and Ahmed S. Awwad,	1994	**Encyclopedia of fluid mechanics**	1st Edition	-	*139*	*1995-6665*	**Elsevier**

18. Paper Title: Analytical prediction of creep behavior in polymeric-based nanocomposites							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**
Ahmad Almagableh, Raju Mantena Ahmed Alostaz and Ahmed S Awad	2015	**Journal of Reinforced Plastics and Composites**	34	9	*687–695*	*Print 0731-6844. Online 1530-7964*	**SAGE**

19. Paper Title: Forced convection heat transfer of Williamson fluid flow in porous media over horizontal plate with constant heat flux							
Authors	**Year**	**Journal**	**Volume**	**Issue**	**Pages**	**ISSN**	**Publisher**

Omar Quran, Hussein Maaitah, Ahmad S. Awad, Mutaz Elayyan, Hamzeh M. Duwairi	2022	**Heat Transfer**	51	5	*139*	*1995-6665*	**Elsevier**

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