

CURRICULUM VITAE

Nabeel Abu Shaban

*Mechanical engineering, Engineering and Technology
Al-Zaytoonah University of Jordan, Amman, Jordan*

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1. Personal Data

Date of Birth: 5/4/1965

Nationality: Jordanian

Married, 5 children

<https://www.zuj.edu.jo/FET/mechanical-department.html>

2. Education

- Ph.D. (Mechanical Engineering) 2014, Jordan University, Amman, Jordan
- M.Sc. (Mechanical Engineering) 1997, Jordan University, Amman, Jordan
- B.Sc. (Mechanical Engineering) 1989 ,Aleppo University, Aleppo, Syria

3. Ph.D. Dissertation

INVESTIGATION, ANALYZING THE PERFORMANCE OF THE TRI-GENERATION PARABOLIC TROUGH UNDER JORDANIAN CLIMATE CONDITION AND ESTABLISHING A THEORETICAL MODEL CORRELATED WITH EXPERIMENTAL DATA, University of Jordan, Amman, Jordan

4. Employment

<i>Maintenance</i>	<i>ARAAB</i>	<i>KSA</i>	<i>1/10/1989</i>	<i>31/12/1990</i>
<i>Industrial sector</i>	<i>MISAB</i>	<i>Amman</i>	<i>23/8/1992</i>	<i>12/02/1996</i>
<i>Industrial sector</i>	<i>AMPCO</i>	<i>Amman</i>	<i>12/2/1996</i>	<i>31/12/2000</i>
<i>Governmental</i>	<i>Ministry of energy</i>	<i>Amman</i>	<i>1/1/2001</i>	<i>31/12/2001</i>
<i>Freelancer)</i>	<i>private Jordan</i>	<i>Amman</i>	<i>1/1/2002</i>	<i>12/10/2002</i>

Academic Positions

- Assistant Prof. A ZUJ Amman –Jordan, 22/10/2020 - Now
- Assistant Prof. ZUJ Amman –Jordan,1/9/2014- 22/10/2020

- Instructor UOJ Amman Jordan, 12/10/2002 -31/8/2014

Administrative Positions

- Vice dean of engineering technology faculty , ZUJ, Amman , 1/10/2020 - Now
- Chairman of mechanical engineering department, ZUJ, Amman,1/9/2015- Now

5. Research Interests

- Thermal power systems
- Renewable energy, CSP systems
- HVAC, Refrigeration
- Thermal fluid sciences
- Engineering Applications in Artificial Intelligent
- Energy and Exergy analysis.
- Manufacturing and material science

6. Membership in Scientific Societies and Associations

- Jordanian Engineers Association (JEA) (3/4178)
- ASHREA
- Member in the Branch of Mechanical Engineering Jordanian Engineers Association. Conferences organizing and scientific committee.
- Head of Local community service at ZUJ
- Technical representative in Erasmus+ project (ECO Car, 2020)
- Member in Scientific and organizing Committee of the 9th Jordanian International Mechanical Engineering Conference.
- Member in Scientific Committee of EPPM 2017 Conference.
- Member of many discussion committee for Master thesis
- Member of ABET committee in FET, ZUJ.

7. Honors and Awards

- Best paper presentation in EPPM conference 2021 Poland
- JEA Shield in JIMEC 2018 scientific committee
- GCREEDER shield in 6th global conference scientific committee.

8. Teaching Experience

➤ *Graduate Courses*

- Advance Math
- Renewable energy

➤ *Undergraduate Courses*

- Thermodynamics,
- Fluid Mechanics
- Power plant
- Strength of Materials and material science
- Refrigeration and HVAC
- Design of firefighting systems

9. Grants

- Eco car Erasmus plus 2020 for ZUJ
- Scientific funded projects at ZUJ 4 times total fund 100,000JD

10. Membership of Committees

- **National and International**
 - *Provide a list*
- **University**
 - *Provide a list*

11. Professional and Scientific Meetings

Scientific Meetings Organized

- Organizing Committee, the Fifth Global Conference on Renewable and Energy Efficiency for Desert Regions (GCREEDER), 2015.
 - Organizing Committee, Zaytoonah University International Engineering Conference on Design and Innovation in Sustainability 2014 (ZEC Sustainability 2014), 2014.
 - Organizing Committee, the Fourth Global Conference on Renewable and Energy Efficiency for Desert Regions (GCREEDER), 2013. on Renewable Energy and its Future in the Arab world 2013, 2013.
 - Organizing Committee EPPM 2017 international conference.
 - Organizing Committee, the ninth Global Conference on Mechanical Engineering JIMEC2018, (2018). Participation in Scientific meetings
 - Participant, the Fifth Global Conference on Renewable and Energy Efficiency for Desert Regions (GCREEDER), 2015.
 - Participant, Zaytoonah University International Engineering Conference on Design and Innovation in Sustainability 2014 (ZEC Sustainability 2014),
 - Participant, the Fourth Global Conference on Renewable and Energy Efficiency for Desert Regions (GCREEDER), 2013. on Renewable Energy and its Future in the Arab world 2013, 2013.
 - Participant EPPM 2017 international conference. • Participant JIMEC2018
- Participation in Scientific meetings*
- Participant EPPM 2021 international conference.
 - Participant IEE international conference renewable energy MEA University.

12. Publications

➤ **Journals Articles**

- 1 Jamil Al Asfar, Ahmad AlShawar, **Nabeel Abu Shaban**, Mohammad Alrbai, Bashar R. Qawasmeh, Ahmad Sakhrieh, Mohammad A. Hamdan , Omar Odeh *Thermodynamic analysis of a biomass-fired lab-scale power plant*, SCIE, Scopus Energy Elsevier, Vol. 194 (2020)
- 2 Ahmad Aboushi, Mohammad Hamdan, Eman Abdelhafez, Esra'a Turk, Jwan Ibbini, and **Nabeel Abu Shaban** *Water disinfection by solar energy*, Energy sources, part A: recovery, utilization, and environmental effects, SCIE, Scopus Energy Taylor and Francis, UK, Vol. 43(17), 2021
- 3 **Nabeel Abu Shaban**, Nabeel Alshabatat, Safwan Al-Qawabah *Effect of flap peening speed on the surface quality and micro hardness of aircraft aluminum alloys*, Archives of Metallurgy and Materials, SCIE, Scopus Metallurgy and Materials, Polish Academy of Sciences, Institute of Metallurgy and Materials Science, Poland, Vol. 67(3), 2022
- 4 **Nabeel Abu Shaban**, Eman Abdelhafez and Mohammad Hamdan, *How Students, in an Air Conditioning and Heating Course, Assess the Impact of the COVID-19 Pandemic on the ABET Student Learning Outcomes Sustainability* ,SCIE, Scopus Sustainability MDPI AG, Switzerland Accepted, Vol. 13(x)
- 5 **Nabeel Abu Shaban**, Ibraheem Nasser, Jamil Al Asfar, Safwan Al-Qawabah, Abdullah N. Olimat, *Thermodynamic and Economic Analysis of a Refrigerator Display Cabinet Equipped with a DC Compressor and Electronic Expansion Valve*, International Journal of Heat and Technology, Scopus, Emerging Science Citation Index Expanded (ESCI) Heat Edizioni E.T.S., Italy Vol. 38, No. 2, June, 2020, pp. 432-438
- 6 Ahmad Al-Qaisia, Jamil Al Asfar, **Nabeel Abu Shaban**, Areej Eniezat *Experimental Investigation of the Performance of a Vortex Tube with Conical Control Valve*, Jordan Journal of Mechanical and Industrial Engineering Scopus, Hashemite University and Ministry of Higher Education and Scientific Research (Jordan), Vol. 14 (2) 2020.
- 7 Abdullah N. Olimat, Ahmad S. Awad, **Nabeel Abu Shaban** *Experimental Investigation on the Effect of Fire-Resistant Coatings on Combustion and Flame Spread Characteristics by Medium Density Fiber Boards Commonly Used in Jordan*, International Review of Mechanical Engineering, Scopus Scopus ,Praise Worthy Prize, Italy, Vol. 14(1), 2020.
- 8 Abdullah N. Olimat, Ahmad S. Awad, Faisal M.AL-Gathain, **Nabeel Abu Shaban**, *Performance of Loaded Thermal Storage Unit with A Commercial Phase Change Materials Based on Energy and Exergy Analysis*, Int. Journal of Renewable Energy Development, Scopus, Renewable Energy Diponegoro university Indonesia - Center of Biomass and Renewable Energy, Vol. 6 (3), 2017.
9. M. S. Ashhab, **N. Abu Shaban** and A. Olimat, *Neural Net Based Optimization of Wet Thermal Lateral Oxidation Rates*, Sensors & Transducers, Vol. 133, No. 10, 2011, pp. 8-17.

10 M. S. Ashhab, A. Oimat and **N. Abu Shaban**, *Prediction of the Surface Oxidation Process of AlCuFe Quasicrystals by Using Artificial Neural Network Techniques*, Sensors & Transducers, Vol. 128, No. 5, 2011, pp. 55-65.

➤ **Conference Publications:**

- 1 Safwan M. Al-Qawabah, **Nabeel Abu Shaban** and Ahmad Al-Aboshi, *Investigation of Roller Burnishing Process on the Mechanical Characteristics, and Micro-hardness of Al-4 wt% Cu Under Hot Work Conditions*, Lecture Notes in Mechanical Engineering, Springer International Publishing, USA, Vol. PP. 209-214, 2017.
- 2 **Nabeel Abu Shaban**, Eman Abdelhafez and Mohammad Hamdan, Maram Saber, Ahmad Al Aboushi, *Estimation of Power Produced by PV Generator Using Weather Data*, IEEE, Scopus, San Francisco State University USA Conference Proceeding's Publisher 2021.
- 3 **Nabeel Abu Shaban**, et al, *Combustion of olive cake*. JIMEC2018.
- 4 **Nabeel Abu Shaban**, et al, *Green drying of Tomato by designed air solar heater*, JIMEC2018.
- 5 **Nabeel Abu Shaban**, et al, *Performance of sustainable green park*. JIMEC2018
- 6 **Nabeel A. Abu shaban**, A. maaitah, a. Salaymeh, *Performance and evaluation of adsorption chillers powered by solar energy by means of ptc's in Jordann.*, 5th. JIIRCRAC'15, Aqaba Jordan, 11 – 14 march. 2015.
- 7 Malik Amayre, **Nabeel Abu Shaban**, et al, *Design of High Efficiency Aggregate Air Cooling System*, Proceedings of the 2nd Thermal and Fluid Engineering Conference, TFEC2017 4th International Workshop on Heat Transfer, IWHT2017 April 2-5, 2017, Las Vegas, NV, USA.