

Date: 17/12/2024



CURRICULUM VITAE

PERSONAL INFORMATION

Faculty Member Name: AKRAM MAHMOUD ABED EL-HADI MUSA
Academic Rank: Assistant professor
College: Engineering
Department: Renewable Energy Engineering
Nationality: Jordanian
Address: Aljabal Alakhdar -Jarash
Phone No: +962 777714098
E-mail: a.musa@aaau.edu.jo

ACADEMIC QUALIFICATIONS

Degrees with fields, institutions, and date

- B.S. in program, university, year.
B.Sc. in Mechanical Engineering, University of Jordan, 1991
- M.Sc. in program, university, year.
M.Sc. in Mechanical Engineering, Thermal Science, University of Jordan, 1994
- Ph.D. in program, university, year.
Ph.D. in Mechanical Engineering, University of Jordan, 2002

Dissertation title: Performance study of a gas turbine power plant using second law analysis

ACADEMIC EXPERIENCE

- Duration: 5 years
- University: National University College of Technology (2020-2022)+ Amman Arab University (2022- till now)
- Academic Rank: Assistant Professor
- Date the rank was granted: 2020
- The body granting the rank: National University College of Technology/ Ministry of Higher Education
- College: Engineering
- Country: Jordan

دائرة الموارد البشرية
Human Resources Department

Duration	Rank	Institution	Department/Faculty	Country
Sep 2022- Now	Assistant professor	Amman Arab University	Renewable Energy/ Faculty of Engineering	Jordan
Oct 2020 - Sep 2022	Assistant professor	National University College of Technology	Renewable Energy Technology/ Mechanical Engineering Department	Jordan
Aug 2014 - Oct 2020	Mechanical Engineering Instructor	Zamil Higher Institute for Industrial Training	Head of Refrigeration and Air-conditioning Department	Saudi Arabia/ Dammam
Sep 2004 - June 2014	Senior Lecturer (First Trainer grade A)	Technical and Vocational Training Corporation- College of Technology at Dammam	Mechanical Engineering Technology/ Refrigeration and Air-conditioning Section	Saudi Arabia/ Dammam

NON-ACADEMIC EXPERIENCE

Duration	Rank	Institution	Department/Faculty	Country
Sep 2003 - Sep 2004	Community Outreach Specialist	Camp Dresser & McKee (CDM)/USAID	Environmental Health Project / Qirawan Spring Watershed Protection Project	Jordan
Sep 1996 - Sep 2003	Engineer /Instructor	Ministry of Education	Industrial Education/ Jarash Directorate	Jordan
June 1994 - Sep 1996	Steel Structure Engineer -	Steel Fabrication Company (SFC)	Fabrication and erection of steel structures	Jordan

دائرة الموارد البشرية
Human Resources Department

Aug 1994 – Sep 1996	Design Engineer/ (part time)	Talal Masud Engineering Office	Mechanical Design	Jordan
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CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS

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CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Jordanian Engineers Association.
- Saudi Council of Engineers.
- American Energy Engineers aee

HONORS AND AWARDS

- None

SERVICE ACTIVITIES

- Jordan Environment Society / (Past head of Jerash branch)
- Ajour Social Development Society / (Past member of administration committee)
- Masjed Alhamed Committee/ (Cashier)

THE MOST IMPORTANT PUBLICATIONS IN THE LAST FIVE YEARS

Journal publications:

1. Integrating machine learning in architectural engineering sustainable design: a sub-hourly approach to energy and indoor climate management in buildings
Hussein, M.Y.A., Musa, A., Altaharwah, Y., Al-Kfouf, S.
Asian Journal of Civil Engineering, 2024, 25(5), pp. 4107–4119
2. Integrating machine learning in digital architecture: enhancing sustainable design and energy efficiency in urban environments
Abu-Shaikha, M.F., Al-Karablieh, M.A., Musa, A.M., Almashayikh, M.I., Al-Abed, R.Y.
Asian Journal of Civil Engineering, 2024
3. Estimation of Photovoltaic Module Performance with L-Shaped Aluminum Fins Using Weather Data
Hamdan, M., Abdelhafez, E., Musa, A., Ajib, S.
Journal of Ecological Engineering, 2024, 25(1), pp. 336–344

1.

INSTITUTIONAL PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS

- Managing Employee Performance - an online non-credit course authorized by the University of Minnesota and offered through Coursera- 2019
- Setting Expectations & Assessing Performance Issues - an online non-credit course authorized by the University of California, Davis, and provided through Coursera - 2019

RESEARCH LINK (Scopus and Google Scholar)

- <https://www.scopus.com/authid/detail.uri?authorId=7004351812>
- https://scholar.google.com/citations?user=nty86_QAAAAJ&hl=en&authuser=l

LANGUAGES

- Arabic
- English