

Ikrima Amaireh, BSc, MSc, Ph.D.

Academic, Researcher & Engineer



Experienced Assistant Professor with a demonstrated history of working in the higher education and research industry. Well-skilled in university teaching, scientific research, Sustainable & Environmental Design, Green Building, Building Services, sustainable engineering, and Computational Design. Highly-educated professional with a Doctor of Philosophy (Ph.D.) focused on Building Technology (Architectural Engineering) from the University of Nottingham. Always willing to learn and looking for a new challenge!



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April 26th 1985



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<https://www.facebook.com/ikrima.amaireh>

EDUCATION

Doctor of Philosophy (Ph.D.)

United Kingdom

The University of Nottingham

02/2013 – 07/2017

Subject: Building Technology (Architectural Engineering)

Title: Numerical investigation into a double skin façade system integrated with shading devices, with reference to the city of Amman, Jordan.

Master of Science (MSc.)

United Kingdom

The University of Nottingham

09/2011 - 09/2012

Subject: Sustainable Building Technology (Architectural Engineering); Grade: Distinction

Title: Improving the Performance of PV Integrated Shading Devices (PVSD) for Glazed Facades of Commercial Buildings in Jordan: Investigation and Design.

Bachelor's Degree (BSc.)

Jordan

Al Al-Bayt University.

10/2003 - 06/2008

Subject: Architectural Engineering.

Very Good (Ranked 1st among all undergraduate students, Class 2008).

WORK EXPERIENCE

Head of Department

Amman, Jordan

Architecture & interior Architecture / School of Architecture & Built Environment

German Jordanian University

09/2023 - Pres

Responsibilities:

- Managing both academic and administrative issues related to the department, this includes courses, students, and instructors.

Assistant Professor

Amman, Jordan

German Jordanian University

09/2017 - Pres

Responsibilities:

- Teaching undergraduate courses (BSc).
- Teaching Graduate courses (MSc).
- Supervising Graduate (MSc) Thesis.
- Examining Graduate (MSc) Thesis.
- Conducting administrative tasks related to the academic affairs at different levels (Department, School, and University).

Coordinator for Graduate Studies at School of Architecture & Built Environment.

Amman, Jordan

German Jordanian University

09/2017 - 11/2017

Responsibilities:

- Managing academic and administrative issues related to Graduate studies at the level of the school.

Post-graduate Researcher

Nottingham, United Kingdom

The University of Nottingham

09/2011 - 05/2017,

Responsibilities:

- Scientific Research.

Research and Teaching Assistant

Amman, Jordan

German Jordanian University

09/2010 - 09/2011,

Responsibilities:

- Teaching Assistant.
- Lab Supervisor.
- Exams Moderator.

Lab Supervisor

Zarqa, Jordan

Hashemite University

09/2008 - 09/2010,

Responsibilities:

- Lab Supervisor.
- Exams Moderator.
- Teaching Assistance.

PUBLICATIONS

Freewan, A., Adas, M., and Amaireh, I., Enhancing Cross Natural Ventilation using Horizontal Wind Catcher in Residential Building in compact urban areas. (In Progress).

Freewan, A., Jaradat, N., and Amaireh, I., 2022. Optimizing Shading and Thermal Performances of Vertical Green Wall on Buildings in a Hot Arid Region. Buildings, 12(2), pp.216-216.

Freewan, A., Adas, M., and Amaireh, I., 2021, Oct.. Optimizing the Natural Ventilation using Horizontal Wind Catcher in Residential Building in Hot Climate Regions. In 8th Zero Energy Mass Custom Home (ZEMCH) 2021 International Conference. ZEMCH 2021.

Amaireh, I., Gan, G., Omer, S., and Zeinelabdein, R., 2017, Jul.. Feasibility of double-skin façades for multi-storeys office buildings in Amman/Jordan: an insight into thermal performance for both summer and winter peak conditions. In 16th International Conference on Sustainable Energy Technologies (SET2017), Bologna. Set2017.

Zeinelabdein, R., Omer, S., Mohamed, E., Amaireh, I., and Gan, G., 2017, Jul.. Free cooling based phase change material for domestic buildings in hot arid climate. In 16th International Conference on Sustainable Energy Technologies (SET 2017), Bologna. SET 2017.

Amaireh, I., 2017. Numerical investigation into a double skin façade system integrated with shading devices, with reference to the city of Amman, Jordan. The University of Nottingham

Amaireh, I., 2012. Improving the Performance of PV Integrated Shading Devices (PVSD) for Glazed Facades of Commercial Buildings in Jordan: Investigation and Design. The University of Nottingham

CONFERENCES & COURSES

- 16th International Conference on Sustainable Energy Technologies (SET 2017), 17-20 July, Bologna, Italy. Sustainable Energy Technologies.
- 8th Zero Energy Mass Custom Home (ZEMCH) 2021 International Conference, 26-28 October, Dubai, UAE.

TEACHING COURSES

Technical Graphic A	Technical Graphics B	Fundamentals of Design I	Fundamentals of Design II
Utility Planning and Design I	Utility Planning and Design II	Computer Visualization I	Comparative History of Architecture
Excursion: International Architecture	Regional and Vernacular Architecture	Specifications and Quantity Surveying	FreeHand Sketching I
Special Topics in Architecture	Graduation Project I	Graduation Project II	Design of Sustainable Buildings

Sustainable Buildings Assessment (MSc)

RESEARCH INTERESTS

Computational Fluid Dynamics (CFD) Ventilation Design Smart Façades Computer-Aided Design (CAD) Acoustics Building Integrated Photovoltaics (BIPV)	Intelligent Architecture Heat and Mass Transfer Green Building Passive Design Noise Control Environmental Modelling and Assessment	Building Technology Energy Efficiency and Conversations Sustainability Daylighting Renewable Energy
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SOFTWARE

Fluent (ANSYS) Ecotect High Performance Computing (HPC) Microsoft Office	TAS (Thermal Analysis Simulation) SketchUp Computer-Aided Design (CAD) Remote Desktop	EnergyPlus (Energy+) Radiance AutoCAD
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LANGUAGES

Arabic

Native or Bilingual Proficiency

English

Full Professional Proficiency

REFERENCES

Upon Request.