Curriculum Vitae **Ahmed A. Y. Freewan**

Jordan University of Science and Technology

College of Architecture and Design

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Education

2008 PhD; Green Architecture and Building Technology, The school of the Built Environment, **University of Nottingham, UK**
1999 MSc; Architecture, University of Jordan
1994 BSc; Architectural Engineering, Jordan University of science and Technology

Experience

Countries of Work Experience: Jordan, UAE, UK

2011-present Chairman School of Design- Jordan University of Science and Technology

2008 - Present Assistant professor Jordan University of Science and Technology-Jordan
& Architect and designer
projects:
Jordanian Hamma tourism complex in association with ERADA
Housing and commercial buildings
2004-2007 teaching assistant University of Nottingham-UK
2006-2007 Eco houses volunteer (student architect) University of Nottingham-UK
1999-2004 Architect and Instructor United Arab Emirates University-UAE
1994-1999 Architect Rasem Badran Association-Jordan

Publication and Research

FREEWAN, A. A. Y., GHARAIBEH, A. A. & JAMHAWI, M. M. 2014. Improving daylight performance of light wells in residential buildings: Nourishing compact sustainable urban form. Sustainable Cities and Society.

FREEWAN, A. A. Y. 2014. Impact of external shading devices on thermal and daylighting performance of offices in hot climate regions. *Solar Energy,* 102**,** 14-30.

Freewan, A. A. (2011). Improving Daylight Performance of Light-well in Multi-story Apartment Buildings. SET2011, Istanbul – Turkey. Ahmed A, F. (2011). Improving thermal performance of Offices in hot climate regions. WREC, Linkoping, Sweden.

Freewan, A. A. (2010). Modifying courtyard wall geometries to maximize daylight performance of courtyard. SEB-10, Briton - UK, Springer.

Freewan, Ahmed A. *(2010)* Maximizing the lightshelf performance by interaction between lightshelf geometries and a curved ceiling Original *Energy Conversion and Management, 51 (8*): *1600-1604*

Freewan, A. A., L. Shao, et al. (2009). "Interactions between louvers and ceiling geometry for maximum daylighting performance." Renewable Energy **34**(1): 223-232.

Freewan, A. A., L. Shao, et al. (2008). "Optimizing performance of the lightshelf by modifying ceiling geometry in highly luminous climates." Solar Energy **82**(4): 343-353.

Freewan, A., S. Riffat, et al. (2006). Optimising performance of lightshelf by modifying ceiling geometry. World Renewable Energy Council 2006, Florence - Italy

Freewan, A (2002) Reinvention of tradition Architecture, Architecture in deserts regions symposium, Riyadh, Saudi Arabia

Area of interests/competencies, including:

- Sustainability and sustainable development framework,
- Strategy planning, Policy development and design, and tools,
- Assessing and monitoring Strategy and setting KPIs,
- Strategic Environmental Assessment (SEA),
- Environmental Guidelines and Regulations,
- Health, Safety and Environment (HSE),
- Low Carbon Society, Scenarios, and Green Economy,
- Eco Friendly and Sustainable Cities,
- Green Building Policies and Guidelines, and

- Renewable Energy and Climate Change.
- Daylighting,
- photovoltaic,
- computer simulation for building energy performance

Journals

- **Reviewer:**
    1. **DIRASAT;** the scientific journal of the University of Jordan
    2. **KSUJ**: King Saud University Journal, KSA
    3. **Sustainable cities and societies**

Conference

SET: **S**ustainable **E**nergy **T**echnology **International Scientific Committee** and advisory board, it is international annual conference. It has been held in many countries like, UK, Canada, Turkey, and China
JIEC: Jordan International Energy Conference, Organization committee and head of scientific committee

Courses:

Architectural Design, Basic Design, Design Methods, Building Construction, Building Technology, Design Theory, Building Physics Computer Aided Design; AUTOCAD, ARCHICAD

Membership

WSSET; World Society of Sustainable Energy Technology, UK
JEA; Jordanian Engineer Association, Jordan
JAS; Jordanian Architects Society**,** Jordan

Current research:

- Energy Management in Building
- Renewable energy for domestic scale
- Develop a Daylighting and Ventilation System in Multi Story Housing Buildings
- Using tubular daylight systems to improve daylight level in double loaded corridor in educational buildings

Detailed Tasks Assigned:

- Teaching and training sustainable design
- Architect and sustainable design consulter
- Computer design approach trainer
- Developed Green campus
- Supervisor of Eco house design
- LEEDS lectures
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Research and funded projects

1- Improving daylight envirpnemnt in inner space in mault storios housing building
2- Impreoving theeraml p[erfomacne of offices in hotclimte regions
3- Using vistual reality in architecural education and esign

4- Developed the green campus of JUST

- Setting strategic objective and themes based on baseline assessment and understanding of current trends,
- Review best practices and existing policies, and identify the gaps as well as conduct an outreach,
- Set policy intents and barriers, and finalize policy targets and limitations,
- Assessment factors and policy analysis, including: suitability, feasibility, clarity, finance, impact, size, marketability, technicality and readiness. etc, as well as building capacity to monitor, evaluate and control,
- Developed Awareness campaign and programme, execution plan and implementation including action plans

Multi stages project including the following
1- Evaluation of current buildings energy performance
2- Suggestion of environmental tools and design options to improve buildings performance
3- Application of renewable energy applications

5- Eco house Design supervisor

Act as sustainable design consultant, tasks performed included to analyze the environmental and architectural characteristics of prototype eco house for Jordan environment including deferent climatic regions

6- **Developed training and courses program for sustainable design**

these include:
- Building energy simulations programs
- Low energy architecture design and features
- Energy awareness program
- Energy consumption and human behavior
- Advanced lecture on LLEDs and other rating standards

International funded Project

1- **IAM; I**nternational **A**ugmented **M**ed Participants; Spain, Italy, Egypt, Jordan, Palestine, Tunisia, and Lebanon **ENPI-CBCMED European Union**
2- **GOvernance for Achieving Local Strategies for tourism – GOALS** Participants; Italy, Spain ,Greece, Jordan, and Palestine **ENPI-CBCMED European Union**