

SHOUB NOUH MA'BDEH

Assistant Professor, LEED GA

Department of Architecture

College of Architecture and Design

Jordan University of Science and Technology

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EDUCATION

October 2011 **Doctorate of Philosophy, Architecture and Design Research**

School of Architecture + Design, Virginia Tech. University, Blacksburg, VA, USA

Research Topic: *"A Decision-Support Framework for the Design and Application of Radiant Cooling Systems".*

March 2011 **Master of Science (Building/Construction Science and Management)**

School of Architecture + Design, Virginia Tech. University, Blacksburg, VA, USA

Research Topic: *"Green Roofs, Architectural Applications "*.

July 2006 **Master in Design Science (Sustainable Architecture)**

School of Architecture, The University of Sydney, Sydney, Australia

Research Topic: *-"Sustainability in Islamic Architecture: Meanings and applications ";
"The Jordanian House: Toward Sustainable Architectural Design "*.

June 2002 **Bachelor of Architectural Engineering**

Department of Architectural Engineering, Jordan University of Science and Technology, Irbid, Jordan

Graduation Design Project: *"Jordan Marine Academy, Aqaba, Jordan".*

WORK EXPERIENCE

Sept. 2017 – Present: **Assistant Professor**

Department of Architecture

College of Architecture and Design

Jordan University of Science and Technology, Jordan

- ***Courses Taught:*** (Bachelor and Master Levels)

Basic Architecture Design; Architecture Design (different levels);

Integration Design; Sustainable Architecture Design; Energy and

Architecture; Renewable Energy in Architecture; Lighting and Acoustics;

Graduation Project; Master Thesis

- **Head of Strategic planning and Curriculum Development committee**
- **Member of Graduate Studies Committee**
- **Member of Research Committee**
- **Main supervisor of 6 Master Thesis research**

Sept. 2016 – Sept. 2017: **Chairman; Assistant Professor**

Department of Architecture
College of Architecture and Design
Jordan University of Science and Technology, Jordan

- **Administrative Duties:**
 - **Developing the department's academic programs within the mission of the College/ University**
 - **aiding in curriculum development**
 - **collaborative development of appropriate procedures for governance**
 - **guiding the Department's Strategic Planning process**
 - **establish a plan for engaging with external constituencies**
 - **coordinate course offerings, curriculum development, and faculty hires**
 - **preparing and proposing budget requests**

Sept. 2013 – Sept. 2016: **Assistant Professor**

Department of Architecture
College of Architecture and Design
Jordan University of Science and Technology, Jordan

- ***Courses Taught:*** (Bachelor and Master Levels)
Basic Architecture Design; Architecture Design (different levels); Integration Design; Sustainable Architecture Design; Energy and Architecture; Renewable Energy in Architecture; Lighting and Acoustics; Graduation Project; Master Thesis
- **Main supervisor for Graduate Students' research**

Sept. 2012 – Sept.2016: **CEO, Architect**

Future's Designers for Engineering and Developmental Consultations CO.LTD.
Architectural and Environmental Consultations Firm, Amman, Jordan

Residential Buildings - Commercial Buildings - Educational Buildings - Master Planning - Energy Saving Consultations - Interior Design- Environmental Architecture Studies and Consultations

Feb. 2011- July 2013: **Assistant Professor**

Department of Architecture Engineering
The Hashemite University, Zarqa, Jordan

Courses Taught:

Architecture Design; Basics of Environmental Architecture; Lighting and Acoustics; Visual Perception; Building Construction and Materials

Jan. 2009 – Oct. 2010

Research Assistant

Center for High Performance Learning Environments
Virginia Tech University, Blacksburg, Virginia, USA

- *Research duties:*

- **A Decision-Support Framework for the Design and Application of Radiant Cooling Systems**
- **Improve the light distribution of the “Hokie” light.**
- **Green roof testing modules; building and setting up the modules**
- **Developing Energy Conservation Code for The Libyan Department of Ministry and Housing**

Jan. 2007 - Jan. 2009

Teaching Assistant

School of Architecture
Virginia Tech University, Blacksburg, Virginia, USA

Duties:

- **Design studio for graduate level.**
- **Environmental Design Research for graduate level.**
- **Environmental Building Systems II**

May 2008- Aug. 2009

Environmental Consultant

Moseley Architects, Richmond, Virginia, USA

Duties:

Environmental Planning & Research department; Environmental Studies and Research, Conceptual design, Energy modeling, and LEED projects documentation

Sept. 2006- July 2007

Part Time Lecturer

Jordan University of Science and Technology, Irbid, Jordan
Al-Albayit University, Al Mafraq, Jordan

April 2005- July 2006

Junior Architect (part-time)

SJK Architects, Sydney, Australia

Aug. 2002- Mar. 2004

Head of a Technical Department

Irbid Greater Municipality, Irbid, Jordan

PUBLICATIONS

- 2012 Grant, Elizabeth J.; Ma'bdeh, Shouib N. “*Growing Cities, Growing Roofs: Vegetative Systems’ Response to Urban Runoff*” EAAE/ARCC International conference, Milano, Italy.

- 2017 **Ma'bdeh, Shouib N.**; Zghoul, Amani. "*Improving the Ventilation Rate in Classrooms using Natural Ventilation Techniques: The Case of Jordan University of Science And Technology, Jordan*" 5th Annual International Conference on Architecture and Civil Engineering, ACE 2017, Singapore
- 2017 **Ma'bdeh, Shouib N.**; Khatatbeh, Baraa. " *Improving Visual Comfort And Energy Efficiency In Existing Classrooms Using Passive Daylighting Techniques*" 4th International Conference on Energy and Environment Research, ICEER 2017, 17 2017, Porto, Portugal

RESEARCH

Master Thesis (Primary advisor):

- Amani Zghoul; "*Enhancing Students' Performance in Classrooms by Improving Ventilation Rate Using Natural Ventilation Techniques/ The case of Jordan University of Science and Technology (JUST)*"; Department of Architecture, College of Architecture and Design, Jordan University of science and Technology (Approved proposal: 2015)
- Baraa Khatatbeh; "*Harnessing Daylight Potentials As A Tool For Improving Visual Comfort And Energy Efficiency In Existing Educational Facilities Case of Jordan University of Science and Technology (JUST)*"; Department of Architecture, College of Architecture and Design, Jordan University of science and Technology (Approved proposal: 2015)
- Hanan Hyajneh; "*Improving the Performance of Sunspaces Using Smart-Nanocoating Materials*"; Department of Architecture, College of Architecture and Design, Jordan University of science and Technology (Approved proposal: 2015)
- Haneen Matar; "*Optimizing Classrooms' envelop design to improve educational activities*"; Department of Architecture, College of Architecture and Design, Jordan University of science and Technology (Approved proposal: 2015).

Funded Projects:

- **Shouib Mabdeh**; "*Green Affordable Home - Jordan*"; **Primary Consultant, Researcher, and Designer**. Funded project by Moving Energy Initiative, Habitat for Humanity, and Jordan Green Building Council, Jordan (2017)
- **Shouib Mabdeh**; "*Architectural Design Techniques for: Low energy, Low cost, and Comfortable Buildings in Jordan*"; **Main Researcher**. Funded by Scientific Research Support Fund, Ministry of Higher Education, Jordan (2016)

- **Shouib Mabdeh**, Baraa Khatatbeh; "*Utilizing Daylight Potentials As A Tool For Improving Visual Comfort And Energy Efficiency In Existing Classroom\ Case of Jordan University of Science and Technology (JUST)*"; **Main Researcher**. Funded by Deanship of Research, Jordan University of Science and Technology, Jordan (2016)
- **Shouib Mabdeh**; "*Micro-Green Business Evaluation: Environmental and Market Assessment*"; **Primary Consultant, Researcher, and coordinator**. Funded project by UNDP, Amman, Jordan (2015)

EXAMINER/VISITING CRITIQUE/CONTRIBUTIONS

Visiting critic/external examiner/Jury for architectural design projects/competitions:

- Department of Architecture, **Permanent Internal Jury**, Faculty of Architecture and Design, **Jordan University of Science and Technology**, Jordan
- School of Architecture and Built Environment, **Visiting Jury**, **German Jordanian University**, Jordan
- Institute of Islamic Arts and Architecture, **Visiting Jury**, **Al Al-Bayt University**, Jordan
- Department of Architecture Engineering, **Visiting Jury**, **The University of Jordan**, Jordan
- Department of Architecture Engineering, **Visiting Jury**, **Applied Science Private University**, Jordan
- Department of Architectural Engineering, **Visiting Jury**, **Al-Ahliyya, Amman University**, Jordan
- Directorate of Works and Housing Corporation, **Visiting Jury**, **Jordan Force Army**, Jordan
- Jo-Green Competition, **Queen Alia Fund for Social Development**, **Steering committee Member**, Amman, Jordan
- I-sustain Initiative, **Architects/ Engineers Business Council**, **Lecturer and Referee**, Amman, Jordan
- Academic curriculum preparation committee; Bachelor Degree, **Committee Member**, Department of Architectural Engineering, Faculty of Hijjawi for Engineering Technology, **Yarmouk University**, Irbid, Jordan

- Academic curriculum revision committee; Bachelor Degree, *Committee Member*, Department of Architectural, Faculty of Architecture and Design, **Jordan University of Science and Technology**, Irbid, Jordan
- **The First Jordanian-International Conference on Architecture and Design**, *Referee and Session Chairman*, Al-Ahliyya Amman University, Amman, Jordan
- **5th Annual International Conference on Architecture and Civil Engineering**, *Referee*, Global Science and Technology Forum Singapore
- **Jordan Standards and Metrology Organization**, *Permeant committee member (Environmental Friendly Construction Products)*, Amman, Jordan
- **Irbid Greater Municipality**, *Committee Member (Urban Design and Development of the City Center)*, Irbid, Jordan

AFFILIATIONS

- Jordanian Engineers Association, Amman, Jordan
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), USA
- Jordan Green Buildings Council, Amman, Jordan
- Architectural Committee of Green Buildings, Jordanian Engineers Association, Amman, Jordan

RESEARCH INTERST

Sustainable Architecture; Radiant Cooling Systems; Human Thermal Comfort; Green roofs; Buildings' Energy Consumption; Architectural Acoustics and Lighting; Low-Energy Buildings Technologies and Applications.