Date of Birth : 23/11/1988

Nationality : Egyptian

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ASMAA MOHAMED HASSAN

Assistant Professor of Architectural Engineering & Urban Planning Department

EDUCATION AND ACADEMIC QUALIFICATIONS

2019	**Ph.D.**	***Dissertation:*** Integration of Urban and Building Morphology as a Passive Strategy in Promoting Outdoor Air Quality in Microclimate.
2017	**Comprehensive Examination**	***Appreciation " Distinction"***
2016	**Pre- Ph.D.**	***Appreciation " Distinction"***
2015	**Master**	***Thesis:*** Interactive Architecture and its impact on Developing Architectural Design, Case Study Interactive Science museums.
2012	**Pre- M.Sc.**	***Appreciation " Distinction"***
2010	**B.Sc.**	Bachelor of Engineering- Specialized in Architecture, appreciation "Very Good with Honors", position "Second" according to the cumulative grade. Graduation Project "Distinction"

Architectural Engineering & Urban Planning Department, Faculty of Engineering, Port Said University, Egypt.

Skills

Languages	Computer Knowledge
○ Arabic (Mother language). ○ English (Very Good).	○ Excellent knowledge of MS Office applications ○ AutoCAD 2D & 3D ○ Sketch up ○ 3ds Max ○ Adobe Photoshop ○ Revit ○ ENVI-met ○ Ansys, Fluent ○ Prezi

EMPLOYMENT HISTORY

2020 - 2023	○ Assistant Professor
2015- 2019	○ Assistant lecturer
2011- 2015	○ Demonstrator

TEACHING EXPERIENCE

2021 – present	Postgraduate program
List of courses taught at Port Said University	○ Research Methodology (2) ○ Human and Environmental Control

2020 – present	Undergraduate program
List of courses taught at Port Said University	***(Architectural Engineering& Construction Engineering Program) Faculty of Engineering.*** ○ ARC 108 Computer Applications in Architecture (1) (2020- 2022) ○ ARC 429 Architectural Design (6) (2020 – 2021) ○ ARC 431 Graduation Project (2020 – 2022) ○ BCM 422 Building Engineering Systems (2020 – Present) ○ BCM 221 Engineering Computer Graphics (2020) ○ ARC 102 Architectural Construction & Materials (1& 2) (2022- Present)

2011-2019	Undergraduate program
Worked in subjects Faculty of Engineering	***(Architectural Engineering& Construction Engineering Program)*** ○ ARC 429 Architectural Design(6) (2011 – 2012) ○ ARC430 Working Drawings (3) (2011 – 2012) ○ ARC215 Architectural Design (3) (2011 – 2012) ○ ARC216 Architectural Construction & Materials (4) (2011 – 2012) ○ ARC213 Computer Applications in Architecture (2) (2011 – 2012) ○ ARC101 Fundamentals Design and Architectural Drawing (2013 – 2019) ○ ARC102 Architectural Construction & Materials (1) (2013 – 2019) ○ ARC104 Shade & Perspective and Visual Studies (2013 – 2019) ○ ARC105 Architectural Design (1) (2013 – 2019) ○ ARC 106 Architectural Construction & Materials (2) (2013 – 2019) ○ ARC 108 Computer Applications in Architecture (1) (2013 – 2019) ○ BCM 321 Acoustics & Lighting (2011 – 2012) ○ BCM 221 Engineering Computer Graphics (2017 – 2018)

RESEARCH EXPERIENCE

RESEARCH INTERESTS

Urban Morphology, Architectural Design, Architectural Education, CFD, Air quality, Air Pollutants Dispersion, Interactive Architecture, Passive Design, Architectural Education, LCA, Machine Learning, Urban Recielience.

RESEARCH EXPERIENCE

RESEARCH RECORD

Scholarly Ranking

Google Scholar	H-Index	6	Access Date : 7 May 2023
	Citations	171	
Scopus	H-Index	5	
	Citations	110	
Orcid number	https://orcid.org/0000-0001-5047-2442		
Scopus account	https://www.scopus.com/authid/detail.uri?authorId=57214328061		

RESEARCH RECORD

Journal Ranking

	Publisher	No. of Papers	Quartile (Scopus & Web of science)	Citescore	IF
PSERJ	PSU	1	-	-	-
IJIRSET	IJIRSET	2	-	-	-
Frontiers of Architectural Research	Elsevier	1	(Q1) Architecture; (Q1) Building and Construction	3.2	-
Journal of Building Engineering	Elsevier	1	(Q1) Architecture	5.5	5.318
Building and Environment	Elsevier	2	(Q1) Building and Construction	9.7	6.456
Energy and Buildings	Elsevier	1	(Q1) Building and Construction	10.9	5.879
Archnet-IJAR	Emerald	1	(Q1) Architecture	2.4	-
Urban science	MDPI	1	(Q3) ENVIRONMENTAL SCIENCES	-	-
Architecture and Engineering		1	(Q1) Architecture	3.42	-
Proceedings of the 8th International Conference on Advanced Intelligent Systems and Informatics 2022	Springer	1	-	-	-
Higher Education, Skills and Work-Based Learning	Emerald	1	(Q3) Education	2.9	-

RESEARCH EXPERIENCE

Published Articles and Proceedings

- Abo El-Einen, O., Ahmed, M., Megahed, N., Hassan, A. (2015). Interactive-Based Approach for Designing Facades in Digital Era. Port-Said Engineering Research Journal, 19(1), pp.72-81
- El Mokadem, A., Abo Eleinen, O., Megahed, N., Hassan, A. (2019). Analytical Trends of Building Morphology as a Passive Strategies to Promote Outdoor Air Quality. International Journal of Innovative Research in Science, Engineering and Technology, 8(6), 6944– 6952.
- El Mokadem, A., Abo Eleinen, O., Megahed, N., Hassan, A. (2019). Passive Strategies of Promoting Outdoor Air Quality in Microclimate. International Journal of Innovative Research in Science, Engineering and Technology, 8(6), 6966– 6974.
- Hassan, A., El Mokadem, A., Megahed, N., Abo Eleinen, O. (2020). Urban Morphology as a Passive Strategy in Promoting Outdoor Air Quality. Journal of Building Engineering, 29, May, 101204
- Hassan, A., El Mokadem, A., Megahed, N., Abo Eleinen, O. (2020). Improving Outdoor Air Quality based on Building Morphology : Numerical Investigation. Frontiers of Architectural Research. 9(2), 319– 334.
- Hassan, A. M., & Megahed, N. A. (2021). COVID-19 and urban spaces : A new integrated CFD approach for public health opportunities. Building and Environment, 204, 108131. https://doi.org/https://doi.org/10.1016/j.buildenv.2021.108131
- Megahed, N., & Hassan, A. (2021). A blended learning strategy : reimagining the post-Covid-19 architectural education. Archnet-IJAR: International Journal of Architectural Research, ahead-of-p(ahead-of-print). https://doi.org/10.1108/ARCH-04-2021-0081
- Hassan, S. R., Megahed, N. A., Abo Eleinen, O. M., & Hassan, A. M. (2022). Toward a National Life Cycle Assessment Tool: Generative Design for Early Decision Support. Energy and Buildings, 112144. https://doi.org/https://doi.org/10.1016/j.enbuild.2022.112144
- Shehata, A. O., Megahed, N. A., Shahda, M. M., & Hassan, A. M. (2022). (3Ts) Green conservation framework: A hierarchical-based sustainability approach. Building and Environment, 224, 109523. doi: https://doi.org/10.1016/j.buildenv.2022.109523
- Megahed, N. A., & Hassan, A. M. (2022). Evolution of BIM to DTs: A Paradigm Shift for the Post-Pandemic AECO Industry. In Urban Science (Vol. 6, Issue 4). https://doi.org/10.3390/urbansci6040067
- Hassan, A. M., & Megahed, N. A. (2022). Urban Planning and Development IMPROVING URBAN ENERGY RESILIENCE WITH AN INTEGRATIVE. Architecture and Engineering, 2017. https://doi.org/10.23968/2500-0055-2022-7-4-17-35
- El-Mowafy, B. N., & Hassan, A. M. (2023a). Post-pandemic adopted learning approach to promote architectural education: statistical approach. Higher Education, Skills and Work-Based Learning, ahead-of-print(ahead-of-print). https://doi.org/10.1108/HESWBL-05-2022-0099
- El-Mowafy, B. N., & Hassan, A. M. (2023b). A Problem and Project-Based Learning Strategy to Promote Students' Motivation in Post-pandemic Graduation Design Studio: A Prospective Comparative Study BT - Proceedings of the 8th International Conference on Advanced Intelligent Systems and Informatics 2022 (A. E. Hassanien, V. Snášel, M. Tang, T.-W. Sung, & K.-C. Chang (eds.); pp. 89–106). Springer International Publishing.
- Hassan, A. M. (2023). UMC-based models: An integrating UMC performance analysis and numerical methods. Renewable and Sustainable Energy Reviews, 181, 113307. https://doi.org/https://doi.org/10.1016/j.rser.2023.113307

Supervision of Academic Theses and Research Topics

ONGOING THESIS

Faculty of Engineering, Port Said University, Egypt.

M.Sc (Role : Member)

- Green heritage building information modeling : Process-based approaches for sustainable conservation.
- Influence of spatial design on hospital buildings in Egypt.
- Impact of Urban Morphology on Energy Consumption and Building Energy Loads.

PhD (Role : Member)

- The impact of life cycle assessment integration on the building design process.
- Environmental Approach to Enhance The Morphology of Skycourt in Climate Regions in Egypt

Verified Reviews

12 Port-Said Engineering Research Journal

9 Sustainability

1 Building and Environment

1 Safity Science

4 International Journal of Environmental Research and Public Health

2 SIMULATION : Transactions of The Society for Modeling and Simulation International

1 Architectural Engineering and Design Management

1 Atmosphere

1 Life

2 Land

1 Healthcare

1 Journal of Risk and Financial Management

3 Building Simulation

2 Indoor and Built Environment

RESEARCH EXPERIENCE

UNIVERSITY AND COMMUNITY ACTIVITIES

2019- Present	○ Participation in Quality assurance and accreditation unit in Faculty of Engineering.
2020	○ Member of Postgraduate Exams' Control in Faculty of Engineering.
2021– present	○ Member of 4th Undergraduate Exams' Control in Faculty of Engineering.
2021- Present	○ Member of Committee on Scientific and Cultural Relations in Faculty of Engineering.
2021-2022	○ Researcher of research project "Establishing centers of distinction in urban governance for unplanned areas" related **STDF** Funding Authority.
2022	○ Participation in Youth for Development Initiative.
2022- Present	○ Participation in Editorial Board of **Port Said Engineering Research Journal (PSERJ)**. ○ Participation in organizers of **The First International Conference on Engineering Solutions toward Sustainable Development.** ○ Participation in organizers of **Architectural scientific day of Port Said Engineering university.**
2023	○ Attending Urban Heritage Narratives Workshop: Every Taracina has a Story. 09th to 16thMarch 2023 | Port Said - Egypt