

Curriculum Vitae (CV)

Moataz Mohamed Abd EL Raouf



Personal Information:

General presentation about myself, my skills, and my carrier about dedicated teaching with more than 15 years of experience in teachers to ensure productivity and confidence in the classroom. Responsible, reliable, and always willing to go the extra mile. Experience in assisting students of various age groups and abilities. Ability to select and develop a variety of learning strategies to provide education to students with a range of abilities in the classroom. Selective attention skills that are useful for concentrating on one student's tutoring session without being distracted by other students or teachers in the surrounding environment.

Academic Rank: Assistant Professor

Department: Mechanical Engineering

Specialization: Refrigeration and Air Conditioning- Renewable Energy.

Google Scholar: <https://scholar.google.com/citations?user=2XFG3QIAAAAJ&hl=en>

Research Gate: <https://www.researchgate.net/profile/Moataz-Raouf>

ORCID Record: <https://orcid.org/0000-0002-9607-6071>

Email: moataz.raouf@hti.edu.eg

Mobile/WhatsApp: +20/ 0100297937

Education:

Degree	Discipline	Institution	Year
Ph.D.	Mechanical Power Engineering	MANSOURA UNIVERSITY	2020
M.Sc.	Mechanical Power Engineering	MANSOURA UNIVERSITY	2014
B.Sc.	Mechanical Engineering	HTI	2008

Academic Experience:

Institution: The Higher Technological Institute, 10th of Ramadan City.

Rank: Assistant Professor

Dates: 2020

Institution: The Higher Technological Institute, 10th of Ramadan City.

Rank: Research Assistant (PhD student)

Dates: 2014

Institution: The Higher Technological Institute, 10th of Ramadan City.

Rank: Teaching Assistant

Dates: 2009

Research interests:

- Frost Formation, Defrost, Thermal Storage, Hybrid Refrigeration systems, Solar Desalination, PV Panels Cooling and HVAC systems.

Publications:

- Elsayed, M., Mansour, M. S., Eid, M. A., & Abdel-Raouf, M. M. (2024). Thermal behavior of frozen products paired with PCM during winter and summer power outages. *Case Studies in Thermal Engineering*, 53, 103956.
- Mansour, M. S., Halawa, M., Yahya, H., Abdel-Raouf, M. M., & Eid, M. A. (2024). Enhancement of PV and Concentrated PV Panels Using Evaporative Cooling During Summer and Winter Seasons: A Case Study in Egypt. *Case Studies in Thermal Engineering*, 105354.
- Abdel-Raouf, M. M., Yahya, H.E., Salah, M., Halawa, and Ashraf, M., 2025. Energy, exergy, environmental and economic (4E) analysis of PV, CPV and CCPV panels at different climate conditions. *Journal of Al-Azhar University Engineering Sector*, 20(74), pp.193-210.
- Abdel-Raouf, M. M., Eid, M. A., Elsayed, M., & Mansour, M. S. (2025). Case studies on domestic refrigerator energy rationing by implementing a hybrid PV-driven condenser cooling system. *Case Studies in Thermal Engineering*, 66, 105618.
- Elsayed, M., Ali, A. A. E. B. I., salah Mansour, M., Abdel-Raouf, M. M., & Eid, M. A. (2024). Theoretical and Experimental Investigation of Two-Phase Sub-Cooled Heat-Pipe at Different Regimes.
- Raouf, M. M., Mousa, M. G., Abdelrehim, O., & Abdel-Hadi, E. A. (2020). EFFECT OF PCM INTEGRATION AT DIFFERENT HEIGHTS OF REFRIGERATOR CABINET. *Journal of Al-Azhar University Engineering Sector*, 15(57), 1199-1212.

Professional Registrations:

- Certified expert for engineering consultancy by the Economic Court - the Egyptian Ministry of Justice.
- Certified Reviewer at (Elsevier, springer, Wiley).
- Adjudicator accredited by the Ministry of Higher Education and Scientific Research, National Science Club Forum.
- A senior member of the Supreme Committee for preparing the yearly evaluation report undergoing the Ministry of Higher Education & Scientific Research by HTI.
- MEP Consultant.

Teaching Experience:

Courses taught

- Mechanics (statics and dynamics).
- Refrigeration and Air conditioning.
- Thermodynamics (A, B).
- Fluid Mechanics (A, B).
- Heat and Mass Transfer,
- Heat Transfer and its Applications.

- Thermal Engineering.
- Renewable Energy.
- Engineering and Assembly Drawing.
- Computer aided Drawing.
- Technical Reports.
- Thermo-fluid Lab and HVAC Labs.
- Technical Installations in Buildings, HVAC (Architectural Engineering department).
- Humanities (Communication Skills, Entrepreneurship, etc).