

CURRICULUM VITAE

Mai Bani Younes

Mechanical Engineering Department

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1. Education

- M.Sc. in Mechanical Engineering/Renewable Energy, 2017, Jordan University of Science and Technology.
- B.Sc. in Mechanical Engineering/power,thermal and energy, 2012, Mutah University, Alkarak, Jordan

2. Employment

Academic Positions

- Lecturer, Mechanical Engineering, ZUJ, Amman, Jordan (9, 2021- present)
- Lecturer, Renewable Energy and Sustainable development, ZUJ, Amman, Jordan (9, 2019 – 9, 2021)
- Lecturer, Mechanical Engineering, ZUJ, Amman, Jordan (10, 2018 – 9, 2019)
- Lecturer of Solar Energy, Dep. Solar Power Engineering, Toledo College, Irbid- Jordan (2, 2017-6, 2018)
- Research Assistant, Jordan University of Science and Technology; JUST, Irbid- Jordan. Solar Ejector Cooling System Project; Design & Modelling Using “TRNSYS” (1, 2014-12, 2016)
- Teacher Assistant, Jordan University of Science and Technology; JUST, Irbid – Jordan (2, 2013- 6,2015)

3. Research Interests

Energy, Renewable Energy, Thermal Systems, Mechanical Power System Analysis, Mechanical Machine, Power and Control Systems.

4. Membership in Scientific Societies and Associations

- Member in Association of Energy Engineer; AEE, Amman-Jordan.

5. Fellowships and Scholarships

- 2007: Full scholarship “His Majesty King Abdullah Bin Husain II”, B.Sc., Mu’tah University, Al-Karak- Jordan
- 2013: Full scholarship from Jordan University of Science and Technology; JUST, M.Eng., Irbid- Jordan.

9. Teaching Experience

- *Undergraduate Courses*

AutoCAD; Manual Drawing; Statics; Applied Mathematic for Engineering; Thermodynamics, Solar Energy; HVAC, Fluid Mechanics, Bioenergy & Waste Management, Alternative Energy, Combustion Engine, Hybrid Systems, Simulation & Modeling Lab, Measurements and PV systems.

10. Membership of Committees

- **National and International**
 - *Jordanian Engineers Association*

11. Professional and Scientific Meetings

Participation in Scientific meetings

- Zero Carbon Buildings: A Hospital Case Study in Jordan." 8th Jordanian International Mechanical engineering Conference, 2015, Amman-Jordan
- Energy Analysis and Refrigerant Replacement in Pre-Cooling Concrete System in Massive Concrete Structures." 11th international conference on engineering, project, and production management EPPM 2021

12. Publications

Provide numbered lists of:

- Bourhan Tashtoush, **Mai Bani Younes** “Comparative Thermodynamic Study of Refrigerants to select the Best Environment friendly Refrigerant for use in a Solar Ejector Cooling System”, Arabian Journal for Science and Engineering, 44, pages1165–1184 (2019)
- Malik I. Alamayreh, Ali Alahmer, Mai Bani Younes and Subhi M. Bazlamit “Pre-Cooling Concrete System in Massive Concrete Production: Energy Analysis and Refrigerant Replacement”, Energies, 15(1129):1-18 (2022)