

Dr. Hamza Al-Tahaineh (Assistant Professor)

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Education:

- B.Sc. in Mechanical Engineering, Jordan University of Science and Technology, Irbid, Jordan, 1996.
- M.Sc. in Mechanical Engineering, Jordan University of Science and Technology, Irbid, Jordan, 1998. Thesis title: "**Performance of Mini Solar Pond**".
- Ph.D. in Mechanical Engineering, University of Jordan, Amman, 2002. Thesis title: "**Second Law Analysis of Solar Powered Aqua-Ammonia Absorption Refrigeration System**".

Research Interests

- Renewable Energy and Applications
- Air Conditioning
- Environment
- Power Plants and Energy

Taught courses:

- Fluid mechanics
- Numerical techniques
- Thermodynamics
- Thermal Engineering
- Power Plants (1 & 2)
- Energy Conversion
- Air Conditioning
- Heat Transfer

Selected Publications

1. M..A. Tahat, Z.H. Kodah, S.D. Probert, **H. Al-Tahaine**, Performance of a portable mini solar-pond, *Applied Energy* [66 \(4\)](#) (2000) pp. 299-310.
2. O. O. Badran, **H. A. Al-Tahaine**, “The Effect of Coupling a Flat-Plate Collector on the Solar Still Productivity”, The 8th Arab International Solar Energy Conference & Regional World Renewable Energy Congress, University of Bahrain, Bahrain, 8-10 March, 2004.
3. H.M. Duwairi, **H.A. Al-Tahaine** and M.A. Alhusein, “Dimensional Analysis of a Non Convective Salt-Gradient Solar Pond”, *International Journal of Heat Technology*, *Volume 22, n. 2, December 2004*.
4. **H.A. Al-Tahaine**, “Performance of A Solar Collector Augmented Still”, 3rd **IASME / WSEAS International Conference on HEAT TRANSFER, THERMAL ENGINEERING and ENVIRONMENT**, Corfu Island, Greece, 20-22 August, 2005.