

Curriculum Vitae

Basim H. Freegah

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PERSONAL SUMMARY:

Basim Freegah graduated with a degree in Mechanical Engineering from the college of Mechanical Engineering, University of Technology 1998, Iraq, followed by master's in Fluid Dynamic from the University of Technology 2001, Iraq. Freegah joined the Battery Manufacture, Department of Maintenance in 2001 where he worked as Engineering for four years then he joined the Al-Mustansiriya University, Mechanical Engineering Department in 2006 where he worked as an Assistant lecturer for five years. Freegah obtained his PhD in Heat Transfer/ Renewable Energy from the University of Huddersfield 2016, UK.

Currently Freegah is working at the Al-Mustansiriya University, Engineering College, and Mechanical Engineering Department as Assistant lecturer.

EDUCATION:

- PhD, Energy Engineering/ Institute of Advance Technology/ University of Huddersfield, 2016. Thesis Title: Design, Development and Optimisation of a Novel Thermo-Syphon System for Domestic Applications.
- M.SC, Engineering College/Mechanical Department/ Fluid Dynamic/University of Technology 2001. Thesis Title: Study of Performance Cold Stores System for Preservation of White Meat (Poultry) by Using Full Thermal Storage System.
- B.SC, Engineering College/Mechanical Department/ Air-Conditioning and Refrigeration/University of Technology 1998.

ACADEMIC /TEACHING EXPERIENCE:

- Engineering, ministry of Industry and Minerals, State Battery Manufacturing Company , Maintenance Department 2001-2006.
- Assistant lecturer, Mechanical Engineering Department, Engineering College Al-Mustansiriya University 2006- 2017.
- Lecturer, Mechanical Engineering Department, Engineering College Al-Mustansiriya University 2017 until now.

COURSES TAUGHT:

Undergraduate	Graduate
<ul style="list-style-type: none">• Fluid Dynamic / Tutorial• CAD CAM / Lab• Air-Conditioning / Lab	

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- Turbo Machine / Tutorial
- MATLAB / Lab
- Heat Transfer

PROFESSIONAL AFFILIATIONS:

- Member of Iraqi Engineers Association , 1998

PUBLICATIONS:

1. Freegah, B., Asim, T., & Mishra, R. 2015. "Effect of solar heat flux and thermal loading on the flow distribution within the riser pipes of a closed-loop solar thermo-syphon hot water system", 28th International Congress of Condition Monitoring and Diagnostic Engineering Management.
2. Freegah, B., Asim, T., Mishra, R., & Zala, K. 2015. "Numerical Investigations on the Effects of Transient Heat Input and Loading Conditions on the Performance of a Single-phase Closed-loop Thermo-syphon", 42nd National Conference on Fluid Mechanics & Fluid Power FMFP 2015.
3. Freegah, B., Asim, T., Albarzenji, D., Pradhan, S., & Mishra, R. 2014. "Effect of the shape of connecting pipes on the performance output of a closed-loop hot water solar Thermo-syphon", 3rd International Workshop and Congress on e-Maintenance
4. Freegah, B., Asim, T., & Mishra, R. 2013. "Numerical Analysis of a Closed Thermo-syphon Hot Water Solar System under Steady and Transient Loading Conditions", 40th National Conference on Fluid Mechanics & Fluid Power FMFP 2013.
5. Freegah, B., Asim, T., & Mishra, R. 2013. "Effects of condenser volume on the performance of a solar thermo-syphon", Annual Researchers Conference Computing and Engineering 2013 (CEARC'13), December 2013, University of Huddersfield, Huddersfield, UK, pp. 140-145.
6. Freegah, B., Asim, T., & Mishra, R. 2013. "Computational Fluid Dynamics based Analysis of a Closed Thermo-Syphon Hot Water Solar System", 26th International Congress of Condition Monitoring and Diagnostic Engineering Management.
7. Ramadan, H., Abas, K., Freegah, B., 2013. "studying the effect of number and location of loading of chilled water pipes used to cool the inside walls of building on the distribution of temperature on the inner surface of the wall using the finite element method ", Journal of Wassit for Science and Medicine, ISSN 58161992, PP.1-15, Vol. 6.
8. Mohsin, A. R., & Abood, B. H. (2012). "Simulation Analysis of Refrigerant Flow inside Capillary Tube for Two Phase Flow". Gulf University Journal: Engineering and Computer Engineering Division, 4(1), 36-51.

PROFESSIONAL DEVELOPMENT

- Certificate of Achievement for having successfully *graduated* on time in 2016, University of Huddersfield UK.
- Certificate of promotion on successfully completing **Managing safely** a course approved and validated by the *Institution of Occupational Safety and Health*, UK 2015

- Certificate of participation in 26th *International Congress of Condition Monitoring and Diagnostic Engineering Management*, Helsinki, 2013
- Certificate of promotion for successful completion of the *Pre-Sessional Programme (PSP)*, UK 2012
- Certificate of Achievement for successfully achieving *Upper intermediate English Language Programme*, UK 2012
- Certificate of promotion from *IELTS* Language Manchester Centre, UK, 2011
- Certificate of promotion for having successfully passed the *computer course* from university of Technology / computer center, Iraq, 2000
- Certificate of promotion for having successfully passed the *English Language Test* from university of Baghdad / College of Education for Women, Iraq, 1998