



Curriculum Vitae

Name: Ashraf Amin Hussien El-Terhy

Title: Shebin El-Kom, Menoufiya, Egypt

Department: Mechanical Engineering

Qualifications:

- Bachelor's Degree in May-1999
- Masters Degree in January.-2007.
- Ph.D in December- 2011

Career Hierarchy:

- Teaching Assistant, Date: March, 2003-Jan., 2007
- Assistant Lecturer, Date: Feb, 2007-Dec., 2011
- Lecturer, Date: Jan, 2012- Feb., 2019
- Associate Professor, Date: March2019- present

Employer Position:

- Vice Dean for Education and Student Affairs, Faculty of Engineering, Sinai University	Vice Dean	Nov. 2020- present
- Dean for Faculty of Engineering, Sinai University	Dean	July 2020- October 2020
- Vice Dean for Education and Student Affairs, Faculty of Engineering, Sinai University	Vice Dean	October 2019- June 2020
- Head of Mechanical Department- Faculty of Engineering, Sinai University	Head of department board	Feb., 2019- Sep. 2019



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Department: Mechanical Engineering

Scientific Activities

1: Membership of Professional Organizations and Scientific Societies:

- Member of Executive team of Continuous Improvement and Qualifying for Accreditation Project (CIQAP) at Faculty of engineering- Menoufiya University from Oct. 2009 to Sep. 2012.
- Member of the Board of Directors of Quality Assurance Unit at Faculty of engineering- Menoufiya University form Aug. 2013 to June 2015.
- Member of Programme and Courses specifications Committee for undergraduate and postgraduate at Mechanical power Engineering department-Faculty of engineering- Menoufiya University

2: Training Courses/workshops:

Training attended/Technical skills acquired	Place	Dates (from-to)
Al-Arabyia Company of industrial (car services)	El-Sadat city, Menoufiya	July 3- Sep.r 5, 1997
Microsoft Digital Literacy Training	Menoufiya University.	12 Feb.- 1 March, 2009
Communication Skills	Menoufiya University.	15-17 Jan., 2005
Code of Ethics	Menoufiya University.	29-31 May, 2005
Research Strategy	Menoufiya University.	10-12 Sept., 2006
Preparing and writing the academic researches	Menoufiya University.	17-19 Sept., 2006
Research Ethics	Menoufiya University.	14-16 Aug., 2011
Conference Organization	Menoufiya University.	21-23 Aug., 2011
Management Research Team	Menoufiya University.	18-20 Sept., 2011
Quality Standards in the Education Process	Menoufiya University.	25-27 Sept., 2011
Exams and Students Evaluation Systems	Menoufiya University.	11-13 Dec., 2011
Competing for Research Fund	Menoufiya University.	18-20 Dec., 2011
Use of technology in teaching	Menoufiya University.	3-4 July, 2016
Self-Evaluation for Higher Education Faculties and Institution	National Authority for Quality Assurance and Accreditation of Education	30Jan-2 Feb., 2017



Education Programs and Courses Specifications and Evaluations Learning Outcomes for Higher Education Faculties and Institution	National Authority for Quality Assurance and Accreditation of Education	5-7 Feb., 2017
Mind Mapping skills	Menoufiya University.	28-29 Jan., 2018
Decision making and problem solving	Menoufiya University.	30-31 Jan., 2018

3: Conferences, Seminars and Workshops:

- 1- " Investigation of Two-Phase Flow in a Ventilated Zone", Tenth International Congress of Fluid Dynamics, Ain Soukhna, Red Sea, Egypt, December 16-19, 2010.
- 2- "Solar Still Performance with Heat Transfer and Cost Analysis – A Review", Eleven International Congress of Fluid Dynamics, International Congress of Fluid Dynamics propulsion, December 19-21, Alexandria, Egypt, 2013.
- 3- "Validation of Different Models for Estimating Solar Radiation over Shebin-El-Kom- Menoufiya - Egypt", Eleven International Congress of Fluid Dynamics, International Congress of Fluid Dynamics propulsion, December 19-21, Alexandria, Egypt, 2013.
- 4- " Effect of soiling on the performance of in-situ solar collecting devices ", Menoufia University Faculty of Engineering First International Conference (Ninth Conference of Sustainable Environmental Development) 24-28 March 2017.
- 5- " Enhancing Performance of Solar Air Heaters Using Ribs: Experimental and Numerical Studies", Thirteenth International Conference of Fluid Dynamics, 21-22 December, 2018, Steigenberger Hotel El Tahrir, Cairo, EGYPT.
- 6- " Predicting Solar Irradiance on Horizontal and Tilted Surfaces Using Artificial Neural Networks", Thirteenth International Conference of Fluid Dynamics, 21-22 December, 2018, Steigenberger Hotel El Tahrir, Cairo, EGYPT.

4: Teaching Scopes:

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|------------------|--------------------|----------------------------|---------------------|
| 1. Power plants. | 2. Two-Phase Flow. | 3. Heat and mass transfer. | 4. Energy recovery. |
| 5. Ventilation. | 6. Solar Energy. | 7. CFD. | 8. Turbulence model |

5: Scientific supervision:

-Ph Degree (2) -Master (5)

6: Awards and Certificates of Appreciation:

Three prizes and rewards for distinguished scientific publication from Menoufiya University



7: Peer reviewing of scientific research/ Projects:

- Reviewer of some international Scientific journals such as: Solar energy, Applied thermal engineering, Sustainable energy Technology and Assessment,.....

8: Other Activities:

- Measurements and solution of inside pollution of some factories in Quesna city, Egypt.
- Estimation annual fuel consumption for eight factories at Quesna Industrial City and Sadat City.
- Thermal engineering structure (boiler, laundries, kitchens,) of National Liver Institute, Menoufyia University.



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Skills

- Language Skills:

- December, 2008: "Test of English as a foreign Language (TOEFL)", Score (598), American

- Computer Skills:

- AutoCAD:- 2D and 3D - Programming Languages: Visual BASIC, C++ and FORTRAN

- Computational Fluid Dynamics (CFD) Code: FLUENT and its User Defined Functions (UDF) using C Language.

- Golden Software:- Grapher and Surfer. -Microsoft Office: WORD, EXCEL and P OWER POINT.

- Other skills:

Scientific Publications:

I: published Scientific Papers Extracted From the Masters and Ph.D Theses:

1- N. H. Mahmoud, Mofreh H. Hamed, A. A. Abdel-Hamied and A.A. Hussien, "Gas-Solid Flow Through Ejector" Engineering Research Journal, Vol.30, No. 1, PP 43-51, 2007, Faculty of Engineering, Minoufiya University, Egypt

2- T. I. Sabry, N. H. Mahmoud , A. A. Abdel-Hamied, and A.A. Hussien, "Prediction of the Flow Field in Ventilated Rooms Using Different Turbulence Models", Engineering Research Journal, Vol. 33, No. 4, 2010, Faculty of Engineering, Menoufyia University, Egypt

3- T. I. Sabry, N. H. Mahmoud , A. A. Abdel-Hamied, and A.A. Hussien, " Investigation of Two-Phase Flow in a Ventilated Zone, Tenth International Congress of Fluid Dynamics, Ain Soukhna, Red Sea, Egypt, December 16-19", 2010.

II: Post-Doctoral Published Scientific Papers:

- 4- M. S. Farag, A. A. Hussien, W. A. El-Askary and A. S. Hegaz, " Numerical Simulation of Supersonic Steam Flow in Nozzle", Eleven International Congress of Fluid Dynamics, International Congress of Fluid Dynamics propulsion, December 19-21, Alexandria, Egypt, 2013.
- 5- H.E. Gad , Sh. Shams El-Din , A.A. Hussien and Kh. Ramzy, "Solar Still Performance with Heat Transfer and Cost Analysis – A Review", Eleven International Congress of Fluid Dynamics, International Congress of Fluid Dynamics propulsion, December 19-21, Alexandria, Egypt, 2013.
- 6- H.E. Gad , Sh. Shams El-Din , A.A. Hussien and Kh. Ramzy, "Validation of Different Models for Estimating Solar Radiation over Shebin-El-Kom- Menoufiya - Egypt", Eleven International Congress of Fluid Dynamics, International Congress of Fluid Dynamics propulsion, December 19-21, Alexandria, Egypt, 2013.
- 7- H.E. Gad , Sh. Shams El-Din , A.A. Hussien and Kh. Ramzy, "Performance of Conical Solar Still under Egyptian Conditions", Eleven International Congress of Fluid Dynamics, International Congress of Fluid Dynamics propulsion, December 19-21, Alexandria, Egypt, 2013
- 8-M. Khalil Bassiouny, A. A. Hussien and Mostafa EL shafie, "Calculation of temperature decay for industrial chimney by using analytical model", Engineering Research Journal, Vol. 37, No. 1, 2014, Faculty of Engineering, Menoufyia University, Egypt.
- 9- H.E. Gad , Sh. Shams El-Din , A.A. Hussien and Kh. Ramzy, " Thermal analysis of a conical solar still performance: An experimental study", Solar Energy, 122, 2015.
- 10- Farag MS , A.A. Hussien, El-Askary WA and Hegazy AS, "Numerical Study on condensation Process of Steam Flow in Nozzles", Int J Adv Technol, Vol.6, No 1, 2015.
- 11- M., Khalil Bassiouny, A.A. Hussien, Mostafa EL shafie, and Noriyuki Kobayashi, " Theoretical and experimental analysis for performance evaluation of an actual operating absorption unit", IOSR Journal of Mechanical and Civil Engineering, Vol. 13, No. 1, 2016.
- 12- Samy M. El-Behery, A.A. Hussien, H. Kotb, Mostafa El-Shafie, "Performance evaluation of industrial glass furnace regenerator", Energy 119 (2017) 1119-1130.
- 13- A.A. AbdEl-hamid , N.H. Mahmoud , Mofreh H. Hamed, A.A. Hussien, "Gas-solid flow through the mixing duct and tail section of ejectors: Experimental studies", Powder Technology 328 (2018) 148–155.
- 14-M. Khalil Bassiouny, A. A. Hussien and Mostafa EL shafie, "Calculation of temperature decay for industrial chimney by using analytical model", Engineering Research Journal, Vol. 37, No. 1, 2014, Faculty of Engineering, Menoufyia University, Egypt.
- 15- H.E. Gad , Sh. Shams El-Din , A.A. Hussien and Kh. Ramzy, " Thermal analysis of a conical solar still performance: An experimental study", Solar Energy, 122, 2015.



- 16- Farag MS , A.A. Hussien, El-Askary WA and Hegazy AS, "Numerical Study on condensation Process of Steam Flow in Nozzles", Int J Adv Technol, Vol.6, No 1, 2015.
- 17- M., Khalil Bassiouny, A.A. Hussien, Mostafa EL shafie, and Noriyuki Kobayashi, " Theoretical and experimental analysis for performance evaluation of an actual operating absorption unit", IOSR Journal of Mechanical and Civil Engineering, Vol. 13, No. 1, 2016.
- 18- Samy M. El-Behery, A.A. Hussien, H. Kotb, Mostafa El-Shafie, "Performance evaluation of industrial glass furnace regenerator", Energy 119 (2017) 1119-1130.
- 19- A.A. AbdEl-hamid , N.H. Mahmoud , Mofreh H. Hamed, A.A. Hussien, "Gas-solid flow through the mixing duct and tail section of ejectors: Experimental studies", Powder Technology 328 (2018) 148–155.
- 20- Khaled Ramzy, **A. A. Hussien**, S. Shams El-Din, H. E. Gad, Samir M. Elshamy, “A simple New Developed Model for Forecasting the Solar Radiation in Egypt”, American Journal of Engineering Research (AJER), Volume-9, Issue-1, pp-398-414, 2020.
- 21-Mohamed E. Ibrahim, Samy M. El-Behery, **A. A. Hussien**, Mohamed A. Izzularab, Amr M. Abd-, “Breakdown voltage and thermal performance of nanofilled transformer oil considering natural and forced cooling systems” IET Generation, Transmission & Distribution, pp. 1-8, 2020.
- 22- Mostafa El-Shafie , M. Khalil Bassiouny, Shinji Kambara , Samy M. El-Behery , **A.A. Hussien**, “ Design of a heat recovery unit using exhaust gases for energy savings in an absorption air conditioning unit” Applied Thermal Engineering, volume 194, 2021.
- 23- Mostafa El-Shafie , Shinji Kambara, Yukio Hayakawa , **A.A. Hussien**,” Integration between energy and exergy analyses to assess the performance of furnace regenerative and ammonia decomposition systems”, Renewable Energy, volume 175, pp.232-243, 2021.
- 24-Swellam W. Sharshir , Abanob Joseph, A.W. Kandeal, **A.A. Hussien**, “ Performance improvement of tubular solar still using nano-coated hanging wick thin film, ultrasonic atomizers, and cover cooling”, Sustainable Energy Technologies and Assessments, Volume 52, 2022.