

Curriculum Vitae



Name : Mohamed Reda Aly Abd-Elhamid Salem
Gender : MALE
Date of Birth : February 20, 1982
Place of Birth : Qaha – Qalyubia (Egypt)
Nationality : EGYPTIAN
Address1 : Mechanical Engineering Department, Faculty of Engineering at Shoubra, Benha University, 108 Shoubra Street, Cairo, EGYPT, P.C. 11629.
Address2 : 40 Adam Street, Qaha, Qalyubia, EGYPT, P.C. 13743.
Website : <http://www.bu.edu.eg/staff/mohamedabdelhamid3>

Current Position : Associate Professor of Mechanical Power Engineering at Mechanical Engineering Department, Faculty of Engineering at Shoubra, Benha University
E-mail : mohamed.abdelhamid@feng.bu.edu.eg & me_mohamedreda@yahoo.com
Phone : Mobile: (002) 01207979002 & (002) 01221593208
Fax : +20222023336
Marital Status : Married with 3 Childs.
Major Field : Mechanical Engineering.
Fine Field : Mechanical Power Engineering
Languages : Arabic: Mother Tongue
 English, Very Good spoken and written
Qualifications : 1) I got the BSc Degree from Benha University, Faculty of Engineering at Shoubra (2004).
General Grade: Very Good with honor hierarchy.
Project Grade: Excellent.
 2) I got the MSc degree in Mechanical Power Engineering from Faculty of Engineering at Shoubra, Benha University in 2011.
 3) I got the PhD degree in Mechanical Power Engineering from Faculty of Engineering at Shoubra, Benha University in 2014.
Graduation Project :
 ▪ Calculation of Thermal Loads in Buildings
 ▪ Experimental Study on Flow Boiling Heat Transfer in a Vertical Annulus
MSc Thesis : Thermal Control of Satellites (2011).
PhD Thesis : Experimental Study on Convective Heat Transfer and Pressure Drop of Water-Based Nanofluid inside Shell and Coil Heat Exchanger (2014).

Qualification from AUC 2019 : **Mastering Business Skills for Entrepreneurs at The American University in Cairo Rowad 2030 Project** under the umbrella of the Ministry of Planning, Monitoring and Administrative Reform announces the launch of the "Mastering work skills for businessmen" program which will be held at the American University in Cairo to accelerate the growth of entrepreneurs and develop their skills. The program offers courses in the following areas:

- **Projects Management.**
- **Risk Management.**
- **Marketing Management.**
- **Operations and Quality Management.**
- **Encourages Innovation.**
- **Human Resources for Business.**
- **Funding for Non-Financial Institutions and Start-Ups.**
- **Financing and Evaluation of Emerging Companies.**

Research Assessment	Google Scholar: Citations: 466 h-index: 13 i10-index: 15	Scopus: Citations: 323 20 documents h-index: 10	ResearchGate: Citations: 408 RG score: 23.18 h-index: 12 Research Interest: 497 Recommendations: 276 Reads: >145,450
	SciVal: Citation Count: 286 Scholarly Output: 18 Cit./Publication:15.9 Field-Weight Impact: 1.2 h-index: 10 h5-index: 8	WOS Publons: Citations: 267 Publications in WOS: 19 h-index: 9 Ave. Cit./Item: 14.1 Ave. Cit./Year: 38.1 Verified Reviews: 67	Official BU Account Sum. of points: 569 No. of visitors: 16000

Research Interests	<ul style="list-style-type: none"> ▪ Efficient Energy Production Systems ▪ Energy Savings and Storage ▪ Solar Energy Applications ▪ Water Desalination 	<ul style="list-style-type: none"> ▪ Heat Transfer Techniques ▪ Efficient Heat Exchangers Design ▪ Vapour Compression Systems ▪ Utilization of Waste Energy
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Work Experience	<ol style="list-style-type: none"> 1) Working as Associate Professor at Faculty of Engineering at Shoubra, Benha University from 30 November 2019 until now. 2) Working as Assistant Professor at Faculty of Engineering at Shoubra, Benha University from 27 October 2014 until 29 November 2019. 3) Working as a Lecturer at Faculty of Engineering at Shoubra, Benha University from 27 November 2011 until 26 October 2014. 4) Working as Assistant Lecturer at Faculty of Engineering at Shoubra, Benha University from 8 February 2005 until 26 November 2011.
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I have good experiences in teaching field, as I have taught several courses in:

- Mechanical Engineering Department in Faculty of Engineering at Shoubra – Benha University (till now),
- Energy and Sustainable Energy Engineering Program in Faculty of Engineering at Shoubra – Benha University (from 2014/2015 till now),
- Industrial Engineering Program in Faculty of Engineering at Shoubra – Benha University (from 2014/2015 till now),
- Agricultural Engineering Department – Faculty of Agriculture – Ain Shams University (from 2014/2015 till now),
- Mechanical Engineering Department at Ameeria Integrated Technical Education Cluster (2016/2017),
- Electrical Engineering and Control Program in Faculty of Engineering at Shoubra – Benha University (from 2016/2017 till now).
- Faculty of Engineering – MUST University (from 2022 till now).

List of Courses:

Undergraduate Level

- Heat and Mass Transfer
- Applied Heat and Mass Transfer
- Thermodynamics
- Applied Thermodynamics
- Engineering Computational Methods
- Measurements and Measuring Instrumentations
- Fluids and Thermal Systems
- Fundamentals of Fluid Mechanics
- Water Desalination
- Refrigeration and Air Conditioning
- Engineering Drawing
- History of Engineering Sciences
- Psychology and Organization Behaviour
- Leadership & Management Skills
- Legislation, Contracts and Procurement Management
- Engineering and Society

Postgraduate Level

- Selected Topics in Heat and Mass Transfer (PhD – Mechanical Power Eng.)
- Advanced Heat and Mass Transfer (MSc – Mechanical Power Engineering)
- Heat and Mass Transfer (Preparatory Courses – Mechanical Power Eng.)
- Refrigeration and Air Conditioning (MSc – Mechanical Power Engineering)
- Engineering Computational Methods (Preparatory Courses – Mechanical Power Eng.)
- Precision Measurements Theory (MSc – Mechanical Power Eng.)
- Precision Measurements Theory (MSc – Mechatronics Eng.)

5) Working as a scientific researcher in the field of Mechanical Power Engineering; I published some papers in international journals such as:

Publication List:

- Andrey Colaço, Viviana C. Mariani, [M.R. Salem](#), Leandro dos Santos Coelho, Maximizing the thermal performance index applying evolutionary multi-objective optimization approaches for double pipe heat exchanger, Applied Thermal Engineering, 211, 118504, 2022.
- H. Refaey, [M.R. Salem](#), M.F. Abdrabbo M. Ahmed, Numerical investigations of the performance of water-based nanofluid flow in conically coiled tube-in-tube heat exchangers: CFD simulation with experimental validation, Fourteenth International Conference of Fluid Dynamics 2-3 April 2021, ICFD14-EG-7065, 1-17.
- M. Mostafaa, M. Moawed, H.A. Refaey, [M.R. Salem](#), Performance evaluation of a sea water reverse osmosis system at different operating scenarios, Engineering Research Journal (ISSN: 1687-1340), 1-15, 2021.
- M.A. Karali, E. Specht, J. Mellmann, H.A. Refaey, [M.R. Salem](#), A.Y. Elbanhawy, Granular transport through flighted rotary drums operated at optimum-loading: Mathematical model, Drying Technology 37, January 2020.
- M.M. Metwally, [M.R. Salem](#), A.A. Abdul-Aziz, K.M. Elshazly, Experimental investigation on the performance of a photovoltaic module, Engineering Research Journal (ISSN: 1687-1340) 1(43), January 2020, 36-43.
- M.T. Elwan, S.M. Elshamy, [M.R. Salem](#), O.E. Abdellatif, Enhancement the thermal performance of a shell and coil heat exchanger with different coil geometries: Comparative experimental investigation, Engineering Research Journal (ISSN: 1687-1340) 1(43), January 2020.
- S.M. Elshamy, M.T. Elwan, [M.R. Salem](#), O.E. Abdellatif, Energy and exergy analysis of shell and coil heat exchanger using water based Al_2O_3 nanofluid including diverse coil geometries: An experimental study, Journal of Nanofluids 9 (1), March 2020, 13-23.
- [M.R. Salem](#), Muataz R.S. Mohamed, M.G. Higazy, M.F. Abdraboo, Performance enhancement of a solar still distillation unit: A field investigation, Solar Energy 202, May 2020, 326-341.
- [M.R. Salem](#), Experimental investigation on the hydrothermal attributes of MWCNT/water nanofluid in the shell-side of shell and semi-circular tubes heat exchanger, Applied Thermal Engineering 175, July 2020, 115438.
- [M.R. Salem](#), Performance enhancement of a vapor compression refrigeration system using R134a/MWCNT-oil mixture and liquid-suction heat exchanger equipped with twisted tape turbulator, International Journal of Refrigeration 120, December 2020, 357-369.

- M.M. Ellaban, M.A. Abdelrahman, [M.R. Salem](#), M.A. Moawed, K.M. Elshazly, Study of convective heat transfer and pressure drop characteristics inside shell and semi-circular tubes heat exchanger, Engineering Research Journal (ISSN: 1687-1340) 1(39), January 2019, 39-45.
- M.A. Radwan, [M.R. Salem](#), H.A. Refaey, M.A. Moawed, Experimental study on convective heat transfer and pressure drop of water flow inside conically coiled tube-in-tube heat exchanger, Engineering Research Journal (ISSN: 1687-1340) 1(39), January 2019, 86-93.
- [M.R. Salem](#), H.A. El-Gammal, A.A. Abd-Elaziz, K.M. Elshazly, Study of the performance of a vapor compression refrigeration system using conically coiled tube-in-tube evaporator and condenser, International Journal of Refrigeration 99, March 2019, 393-407.
- E.A. Abdel-Hadi, S.H. Taher, [M.R. Salem](#), S.A. Eldewiny, Performance enhancement of a vapour compression refrigeration system using liquid-suction heat exchanger, Engineering Research Journal (ISSN: 1687-1340), 2019.
- H.A. El-Gammal, [M.R. Salem](#), A.A. Abdulaziz, K.M. Elshazly, The performance enhancement of a water chiller of conically coiled tube evaporator, Engineering Research Journal (ISSN: 1687-1340) 1(41), July 2019.
- [M.R. Salem](#), M.M. Elsayed, A.A. Abd-Elaziz, K.M. Elshazly, Performance enhancement of the photovoltaic cells using Al_2O_3 /PCM mixture and/or water cooling-techniques, Renewable Energy 138, August 2019, 876-890.
- M.E. Zoreia, [M.R. Salem](#), R.K. Ali, K.M. Elshazly, Augmentation of the performance of a photovoltaic cell: A field study, Engineering Research Journal (ISSN: 1687-1340), 1(42), 2019.
- A. Atta, [M.R. Salem](#), H.A. Refaey, M.A. Moawed, Study of heat transfer and pressure drop inside helical cone tube, Engineering Research Journal (ISSN: 1687-1340) 1(41), July 2019, 9-15.
- M.T. Elazab, [M.R. Salem](#), H.A. Refaey, A.A. Abd-Elaziz, Experimental study on the performance enhancement of a solar seawater desalination system, Engineering Research Journal (ISSN: 1687-1340) 1(42), October 2019, 30-36.
- [M.R. Salem](#), M.B. Eltoukhy, R.K. Ali, K.M. Elshazly, Experimental investigation on the hydrothermal performance of a double-pipe heat exchanger using helical tape insert, International Journal of Thermal Sciences 124, February 2018, 496-507.
- R.K. Ali, H.A. Refaey, [M.R. Salem](#), Effect of package spacing on convective heat transfer from thermal sources mounted on a horizontal surface, Applied Thermal Engineering 132, March 2018, 676-685.
- M.M. Alkhaja, [M.R. Salem](#), K.M. Elshazly, M.F. Abdrabbo, Experimental study on the performance enhancement of a water chiller, Scientific Journal of October 6 University, 2018.
- M.M. Alkhaja, [M.R. Salem](#), K.M. Elshazly, M.F. Abdrabbo, Experimental study on the performance enhancement of a heat pump, Scientific Journal of October 6 University, 2018.
- M.S. Elsayed, [M.R. Salem](#), A.A. Attia, R.Y. Sakr, Flow boiling transfer enhancement using twisted tapes, Engineering Research Journal (ISSN: 1687-1340) 1(37), July 2018, 13-21.
- M.S. Elsayed, [M.R. Salem](#), A.A. Attia, R.Y. Sakr, Nanofluid flow boiling heat transfer enhancement in tube fitted with twisted tapes, Engineering Research Journal (ISSN: 1687-1340) 1(37), July 2018, 26-37.

- H.A. Refaey, A.A. Abdel-Aziz, [M.R. Salem](#), H.E. Abdelrahman, M.W. Al-Dosoky, Thermal performance augmentation in the cooling zone of brick tunnel kiln with two types of guide vanes, International Journal of Thermal Sciences 130, August 2018, 264-277.
- A.B. Colaço, F. Bernardo, M.B. Lopes, V.C. Mariani, L. Coelho, [M.R. Salem](#), Optimization of double pipe-heat exchanger with single segmental perforated baffles, 17th Brazilian Congress of Thermal Sciences and Engineering, November 25th-28th, 2018, Águas de Lindóia, SP, Brazil), 234, 0234.
- K.M. Elshazly, R.Y. Sakr, R.K. Ali, [M.R. Salem](#), Effect of γ -Al₂O₃/water nanofluid on the thermal performance of shell and coil heat exchanger with different coil torsions, Heat and Mass Transfer 53(6), June 2017, 1893-1903.
- M.K. Althafeeri, [M.R. Salem](#), K.M. Elshazly, M.G. Higazy, M.F. Abdrabbo, Study of the heat transfer enhancement in a double pipe heat exchanger using segmental perforated baffles, Scientific Journal of October 6 University, 2017.
- [M.R. Salem](#), R.K. Ali, K.M. Elshazly, Experimental investigation of the performance of a hybrid photovoltaic/thermal solar system using aluminium cooling plate with straight and helical channels, Solar Energy 157, November 2017, 147-156.
- A.S. Morad, [M.R. Salem](#), H.A. Refaey, K.M. Elshazly, Experimental investigations of convective heat transfer in cooling zone of perforated bricks tunnel kiln, Scientific Journal of October 6 University, June 2017.
- M.B. Eltoukhey, [M.R. Salem](#), R.K. Ali, K.M. Elshazly, The thermal performance enhancement of a concentric tube heat exchanger using helical fins on the internal tube, Engineering Research Journal (ISSN: 1687-1340) 1(34), October 2017, 16-22.
- [M.R. Salem](#), M.K. Althafeeri, K.M. Elshazly, M.G. Higazy, M.F. Abdrabbo, Experimental investigation on the thermal performance of a double pipe heat exchanger with segmental perforated baffles, International Journal of Thermal Sciences 122, December 2017, 39-52.
- H.A. Refaey, A.A. Abdel-Aziz, R.K. Ali, H.E. Abdelrahman, [M.R. Salem](#), Augmentation of convective heat transfer in the cooling zone of brick tunnel kiln using guide vanes: an experimental study, International Journal of Thermal Sciences 122, December 2017, 172-185.
- [M.R. Salem](#), K.M. Elshazly, R.Y. Sakr, R.K. Ali, Experimental investigation of coil curvature effect on heat transfer and pressure drop characteristics of shell and coil heat exchanger, Journal of Thermal Science and Engineering Applications 7(1), October 2015, 011005, 9 Pages.
- [M.R. Salem](#), R.K. Ali, R.Y. Sakr, K.M. Elshazly, Effect of γ -Al₂O₃/water nanofluid on heat transfer and pressure drop characteristics of shell and coil heat exchanger with different coil curvatures, Journal of Thermal Science and Engineering Applications 7(4), December 2015, 041002, 9 Pages.
- H.A. Refaey, E. Specht, [M.R. Salem](#), Influence of fuel distribution and heat transfer on energy consumption in tunnel kilns, International Journal of Advances in Engineering & Technology 8(3), June 2015, 281-293.
- [M.R. Salem](#), K.M. Elshazly, R.Y. Sakr, R.K. Ali, Effect of coil torsion on heat transfer and pressure drop characteristics of shell and coil heat exchanger, Journal of Thermal Science and Engineering Applications 8(1), November 2015, 011015, 9 Pages.

6) Supervisor on PhD and MSc. Theses such as:
PhD Theses

- **PhD Thesis** by Researcher / Ahmed Shawky Mohamed Rosas

- Experimental Study of Forced Convection and Pressure Loss Through Finned Metal Foam Heat Sinks
- **PhD Thesis** by Researcher / Mostafa Sabry Alsayed Hemeda
Experimental Study of Heat Transfer Enhancement and Hydrodynamic Characteristics of Water-Based Nanofluid Flow Boiling in a Circular Tube Fitted with Twisted-Tapes
 - **PhD Thesis** by Researcher / Mohamed Khalaf Dhaidan ALthafeeri
The Use of Perforated Baffled Channels for Heat Transfer Enhancement
 - **PhD Thesis** by Researcher / Mahmoud Mohammed Alkhaja
Heat Transfer Analysis with Artificial Neural Networks (ANNS)
 - **PhD Thesis** by Researcher / Talal Mesaed Almolla
Study of the Thermal Performance Enhancement of a Heat Exchanger of Semi-Circular Tubes
 - **PhD Thesis** by Researcher / Adel Abdullallah Rashed
Experimental Study on the Heat Transfer and Pressure Drop Characteristics Around Semi-Circular Tubes in Staggered Arrangement
 - **PhD Thesis** by Researcher / Nawaf Mesaed Almolla
Study of The Thermal Performance Characteristics of Water-Based Nanofluid Flow inside Shell and Semi-Circular Tubes Heat Exchanger
 - **PhD Thesis** by Researcher / Nasser Mohammad Abd-Elmohsen
A Field Investigation on Enhancing the Water Desalination Yield from a Solar Distillation Unit
 - **PhD Thesis** by Researcher / Shereen Aly Ebrahim Mohamed Eldewiny
Experimental Study on The Use of Waste Heat Energy to Augment the Performance of a Solar Distillation Unit Having a Pyramid-Shaped Glass Cover
 - **PhD Thesis** by Researcher / Said Abdel-Kerem Mustafa
Augmenting the Utilization of the Waste Heat Energy to Improve the Yield of a Solar Distillation Unit

MSc. Theses

- **MSc Thesis** by Researcher / Ahmed Salah Emam Morad
Study of Convective Heat Transfer and Pressure Drop for Different settings of Perforated Bricks inside a Tunnel Kiln
- **MSc Thesis** by Researcher / Mohamed Besher Eltokhey
Study of Thermal Performance Enhancement of a Double-Pipe Heat Exchanger Using Helical Fin on the Inner Pipe
- **MSc Thesis** by Researcher / Helal Anwr Helal Aljammal
Study of the Performance of a Vapour Compression Refrigeration Cycle Using Conically Coiled Tube-in-Tube Evaporator and Condenser
- **MSc Thesis** by Researcher / Mohamed Mohamed Metwally
Study of Photovoltaic Cells Cooling Using Compound Enhancement Technique
- **MSc Thesis** by Researcher / Mohamed Mohy Mohamed Ellaban
Study of Convective Heat Transfer and Pressure Drop Characteristics inside Shell and Semi-Circular Cross-Sectional Tubes Heat Exchanger
- **MSc Thesis** by Researcher / Mohamed Ali Ebrahim Elsayed
Experimental Study on Convective Heat Transfer and Pressure Drop of Water-Based Nanofluid Flow inside Conically Coiled Tube-In-Tube Heat Exchanger
- **MSc Thesis** by Researcher / Ahmed Maher Khairy
Study of Convective Heat Transfer and Pressure Drop inside Heat Exchanger of Type of Shell and Tubes of Semi-Circular Cross-Section
- **MSc Thesis** by Researcher / Mohamed Ahmed Elsayed Ahmed
Numerical Study on the Heat Transfer Enhancement in a Double Pipe Heat Exchanger Using Compound Technique
- **MSc Thesis** by Researcher / Mohamed Elsayed Mohamed Zoreia
Study of Electrical and Thermal Performance Enhancement of Photovoltaic/Thermal Cells

- **MSc Thesis** by Researcher / Amr Hamdy Abbas Mohamed
Performance Enhancement of a Photovoltaic Cell Using Fins and Nanoparticles/PCM Mixture: A Field Study
- **MSc Thesis** by Researcher / Muataz Rajab Salem Mohamed
Performance Enhancement of a Solar Still for Sea Water Desalination: A Field Study
- **MSc Thesis** by Researcher / Mohamed Yahia Mohamed Behairy
Effect of Surface Friction on Pipe Entrance Flow
- **MSc Thesis** by Researcher / Sherein Aly Mohamed Eldweiny
Heat Transfer Enhancement of Vapour Compression Refrigeration Systems Using Nanoparticles
- **MSc Thesis** by Researcher / Ahmed Atta Mohamed
Study of Heat Transfer and Pressure Drop Inside a Helical Cone Tube
- **MSc Thesis** by Researcher / Mohamed Moustafa Khaled
Study of The Thermal Performance from Helical Cone Coils
- **MSc Thesis** by Researcher / Mohamed Tawfik Abdelghany
Performance Enhancement of Shell and Coil Heat Exchanger Using Nanofluid
- **MSc Thesis** by Researcher / Mohamed Tarek Elsayed
Experimental Study on the Performance Enhancement of a Solar Sea Water Desalination System
- **MSc Thesis** by Researcher / Mohamed Helmy Elnagar
Study of Membrane Distillation using Solar Energy or Waste Heat for Sea Water Desalination
- **MSc Thesis** by Researcher / Moustafa Mohamed Ahmed
Performance Improvement of a Membrane Distillation Module for Sea Water Desalination
- **MSc Thesis** by Researcher / Mohamed Nasser Mohamed Owyed
Experimental Study on the Performance Characteristics of a Thermal Energy Storage System
- **MSc Thesis** by Researcher / Omar Abdul Motaleb Abdul Zaher Ali Elfieky
Improvement of a Solar Still Productivity for Sea Water Desalination Using Waste Energy

- Administrative Positions :**
- ✓ Final Exams Control Committee at Faculty of Engineering at Shoubra - Benha University from 2006 till 2019.
 - ✓ Coordinator of Midterm Exam Control at Faculty of Engineering at Shoubra - Benha University from 2015 till now.
 - ✓ Board Member of Quality Unit at Faculty of Engineering at Shoubra - Benha University from 2015 till 2016 (Faculty has got the certificate of Quality Assurance and Accreditation of Education at 2016).
 - ✓ Board Member of Research Projects Center at Faculty of Engineering at Shoubra - Benha University from 2014 till 2016.
 - ✓ Member of Laboratory Committee at Faculty of Engineering at Shoubra - Benha University 2016/2017.
 - ✓ Coordinator of Quality Committee at "Mechanical Engineering Department" at Faculty of Engineering, Shoubra, Benha University, from 2015 till 2019.
 - ✓ Member of Quality Committee at "Sustainable Energy & Energy Engineering Program" at Faculty of Engineering at Shoubra - Benha University from 2015 till 2016 (Faculty has got the certificate of Quality Assurance and Accreditation of Education at 2016).
 - ✓ Member of Quality Committee at "Industrial Engineering Program" at Faculty of Engineering at Shoubra - Benha University from 2016 till 2019 (Faculty has got the certificate of Quality Assurance and Accreditation of Education at 2016).

- ✓ Member of the Student Affairs Committee at "Mechanical Engineering Department" at Faculty of Engineering, Shoubra, Benha University, from 2015 till now.
- ✓ Member of the Study Schedules Committee at "Mechanical Engineering Department" at Faculty of Engineering, Shoubra, Benha University, from 2015 till now.
- ✓ Advisor to the Committee on Mobility and Public Service at Faculty of Engineering at Shoubra - Benha University 2018/2019.
- ✓ Member of Center of Innovation and Entrepreneurship - Benha University, from August 2019 till now.
- ✓ Coordinator of Quality Committee at "Industrial Engineering Program" at Faculty of Engineering at Shoubra - Benha University" from 2019 till now.
- ✓ Head of Final Exams Control Committee (Fourth Year) at "Mechanical Engineering Department" at Faculty of Engineering, Shoubra, Benha University, 2019/2020.
- ✓ Member of Laboratory Committee at Faculty of Engineering at Shoubra - Benha University 2020/2021.
- ✓ Member of the Board of Directors of Sustainable Energy & Energy Engineering Program - Faculty of Engineering in Shubra - Benha University 2020/2021.
- ✓ Member of the Board of Directors of Credit-Hour Programs - Faculty of Engineering in Shubra - Benha University 2020/2021.
- ✓ Member of Laboratory Committee at Faculty of Engineering at Shoubra - Benha University 2020/2021.
- ✓ Vice-Chairman of Final Exams Control Committee of "Mechanical Engineering Department" at Faculty of Engineering, Benha University, 2020/2021.
- ✓ Vice Director of the Quality Assurance and Academic Accreditation Unit at Faculty of Engineering at Shoubra - Benha University – from December 2020 till now.
- ✓ General Coordinator of Student' Activities at Faculty of Engineering, Benha University, September 2021 till now.
- ✓ Secretary of the Board of the Mechanical Engineering Department, Faculty of Engineering, Shoubra, Benha University, from 2021/2022 till now.
- ✓ Member of the Education and Student Affairs Committee - Faculty of Engineering in Shubra - Benha University 2021/2022.
- ✓ Chairman of Final Exams Control Committee of "Mechanical Engineering Department" at Faculty of Engineering, Benha University, 2021/2022 till now.

University Development Contributions in the Field of Specialization

- Participation in the curriculum development committee for both undergraduate and postgraduate studies of the Mechanical Engineering Department at Faculty of Engineering, Shoubra, Benha University.
- Participation in the curriculum development committee for Sustainable Energy & Energy Engineering Program at Faculty of Engineering at Shoubra - Benha University.
- Contributing to the department's proposed study plan within the programs of developing and updating the curricula of Mechanical Engineering Department during the academic year 2019/2020.

- Member of the Committee for the Modernization and Development of undergraduate Bylaw of Mechanical Power Engineering at Mechanical Engineering Department at Faculty of Engineering, Shoubra, Benha University, January 2021.
- Member of the Committee for the Modernization and Development of Bylaw of Energy and Sustainable Energy Engineering Program - Credit Hours System, November 2021.
- Member of the Committee for the Modernization and Development of postgraduate Bylaw of Mechanical Power Engineering at Mechanical Engineering Department at Faculty of Engineering, Shoubra, Benha University, December 2021.

Memberships & Academic Professional Societies

- Member of Egyptian Society of Engineers.
- Member of Innovation and Entrepreneurship Center - Benha University.
- **Peer Reviewer at International Scientific Journals (>67)**
 - ✓ Energy – Elsevier.
 - ✓ Renewable Energy – Elsevier.
 - ✓ Solar Energy – Elsevier.
 - ✓ Applied Thermal Engineering – Elsevier.
 - ✓ International Journal of Thermal Sciences – Elsevier.
 - ✓ International Journal of Heat and Mass Transfer – Elsevier.
 - ✓ International Journal of Refrigeration – Elsevier.
 - ✓ Chemical Engineering Research and Design – Elsevier.
 - ✓ Heat and Mass Transfer – Springer.
 - ✓ Journal of Thermal Science and Engineering Applications – ASME.
 - ✓ Renewable Energy Focus - Journal - Elsevier
 - ✓ International Journal of Green Energy - Taylor & Francis Online.
 - ✓ Drying Technology - Taylor & Francis Online.
 - ✓ Case Studies in Thermal Engineering – Elsevier.

Passed Training Courses

- A training course for the "Effective Presentation" program in 2011 at the Faculty and Leadership Development Center at Benha University.
- A training course for the "Financial and Legal Aspects" program in 2011 at the Faculty and Leadership Development Center at Benha University.
- A training course for "Competitive Research Projects" in 2011 at the Faculty and Leadership Development Center at Benha University.
- A training course for the "Quality Standards" program in 2011 at the Faculty and Leadership Development Center at Benha University.
- A training course for the "Use of Technology in Teaching" program in 2011 at the Faculty and Leadership Development Center at Benha University.
- Training course for the "Management of Websites" program from 12/12/2017 to 14/12/2017 at the Faculty and Leadership Development Center at Benha University.
- A training course for "Self-Assessment and External Audit" from 12/12/2017 to 14/12/2017 at the Faculty and Leadership Development Center at Benha University.
- A training course for "Time Management and Meetings" program from 17/12/2017 to 19/12/2017 at the Faculty and Leadership Development Center at Benha University.

- A training course for the program "Strategic Planning" in the period from 17/12/2017 to 19/12/2017 at the Faculty and Leadership Development Center at Benha University.
- A training course for "Quality Standards in Teaching" in the period from 20/12/2017 to 23/12/2017 at the Faculty and Leadership Development Center at Benha University.
- A training course for "Statistical Analysis using SPSS" on 3/1/2018 within the project of training in information and communication technology - Management of Development Projects at Benha University.
- "Preparation of Leaders" course at the Leadership Development Institute in Helwan from 11/8/2018 to 15/8/2018.
- A training course for "Skills of Preparing Program Reports and Courses, and Improvement Plans" in the period from 12/9/2018 to 13/9/2018 at the University of Benha.
- Workshop on Project Management. The module is provided by DAAD Kairo Akademie in cooperation with Benha University (2/9/2019).
- The "Self-Assessment of Educational Programs: Colleges and Institutes of Higher Education" course by the National Authority for Quality Assurance and Accreditation of Education, in the period from 1/2/2020 to 3/2/2020.
- A training course for "Learning Management System and Self-Production of Electronic Courses" through the Supreme Council of Egyptian Universities on 20/6/2021.

- Awards :**
- **40 Awards** from **Applied Thermal Engineering – Elsevier**: Certificates of Reviewing. In recognition of the review made of the journal.
 - **10 Awards** from **Energy – Elsevier**; Certificates of Reviewing. In recognition of the review made of the journal.
 - **6 awards** from **International Journal of Heat and Mass Transfer – Elsevier**; Certificates of Reviewing. In recognition of the review made of the journal.
 - **4 Awards** from **Chemical Engineering Research and Design – Elsevier**, Certificate of Reviewing. In recognition of the review made of the journal.
 - **3 Awards** from **Journal of Cleaner Production – Elsevier**; Certificates of Reviewing. In recognition of the review made of the journal.
 - **2 Awards** from **International Journal of Refrigeration – Elsevier**, Certificate of Reviewing. In recognition of the review made of the journal.
 - **Award** from **Renewable Energy Focus – Elsevier**, Certificate of Reviewing. In recognition of the review made of the journal.
 - **Award** from **Chemical Papers – Springer**, Certificate of Reviewing. In recognition of the review made of the journal.
 - **Award** from **Case Studies in Thermal Engineering – Elsevier**, Certificate of Reviewing. In recognition of the review made of the journal.
 - January 2017: Outstanding Reviewer: In recognition of the contributions made to the quality of the Journal (**Applied Thermal Engineering – Elsevier**): You have been awarded this recognition as you are within the top **10th percentile** of reviewers for the Journal.
 - December 2017: Third Scientific Excellence Day (2017) - **Benha University – Egypt**. Certificate of excellent performance in scientific research and international publication.

- **December 2017: Third Scientific Excellence Day (2017) - Benha University – Egypt. Certificate of excellent performance; This is due to the efforts made to obtain accreditation for Faculty of Engineering at Shoubra.**
- **July 2018: Fourth Scientific Excellence Day (2018) - Benha University – Egypt. Certificate of excellent performance in scientific research and international publication.**
- **July 2019: Fifth Scientific Excellence Day (2019) - Benha University – Egypt. Certificate of excellent performance in scientific research and international publication.**
- **December 2020: Sixth Scientific Excellence Day (2020) - Benha University – Egypt. Certificate of excellent performance in scientific research and international publication.**
- **January 2021 - A letter of thanks and appreciation, from Elsevier International Publishing Foundation, for being a reviewer and referee of several scientific papers which were published in that institution's journals during 2020.**
- **October 2021: Seventh Scientific Excellence Day (2021) - Benha University – Egypt. Certificate of excellent performance in scientific research and international publication.**
