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| **Name and Academic Rank**  |

**Ismail Mahmoud Metwally Elsemary**

Associate Professor, Mechanical Engineering

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| **Education** |

Ph.D. Mechanical Power Engineering, Benha University, Egypt, 2014.

M.Sc. Mechanical Power Engineering, Benha University, Egypt, 2009.

B.Sc. Mechanical Power Engineering, Benha University, Egypt, 2003.

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| **Academic experience** |

2003 – 2009: Full time Research assistant and Teaching assistant, Mechanical Engineering, Benha University, Egypt.

2009 – 2014: Full time Research associate and Teaching assistant, Mechanical Engineering, Benha University, Egypt

2014 –2017: Full time Assistant Professor, Mechanical Engineering, Benha University, Egypt.

2017 – Present: Full time Assistant Professor, Mechanical Engineering, Northern Border University, KSA.

**Non-academic experience**

N/A

**Certifications or professional registrations**

N/A

**Current membership in professional organizations**

1. Egypt Syndicate of Engineers, Cairo.

**Honors and awards**

N/A

**Service activities (within and outside of the institution)**

1. Member of committee for Quality Assurance and Accreditation of Mechanical Engineering Program, Shoubra Faculty of Engineering, Benha University, Egypt.
2. Preparing the practical and scientific materials for Combustion and Energy Technology Lab, Mechanical Engineering Department, Shoubra Faculty of Engineering, Benha University, Cairo, Egypt
3. Member of committee for Quality Assurance and Accreditation of Mechanical Engineering Program, College of Engineering, Northern Border University, KSA.

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| **Publications of the Last Five Years:** |

**Journal Papers**

1. Saber Ragab Abdallaha, Ismail M.M. Elsemary, Ahmed A. Altohamy, M.A. Abdelrahmana, Ahmed A.A. Attiaa, Osama Ezzat Abdellatifa “Experimental investigation on the effect of using nano fluid (Al2O3-Water) on the performance of PV/T system” Thermal Science and Engineering Progress/7/1-7, 2018.
2. D.A.Zin-Eldein, T.S.Hussein, I.M.Elsamary, M.A.Moawad “Numerical Study of Compact Heat Exchangers”Engineering Research Journal (ERJ)/ 37/ 22-29, 2018.
3. Hamdy Hassan Marouf, Ismail M. Elsemary, Ahmed A.Abdcl Rahim , M. F. Abd Rabo.” Effect Of Electromagnetic Field On Combustion Of Candle Flame”Engineering Research Journal (ERJ)/ 39/ 18-22, 2019.
4. Ahmed A. Altohamy, Ismail M.M. Elsemary, Saber Abdo, M.A. Abdelrahman, Ahmed A.A. Attia, R.Y. Sakr” Encapsulation surface roughness effect on the performance of cool storage systems” Journal of Energy Storage/ 28/ 2020.
5. Y. K. Al-azmi, R.Y. Sakr, O.E. Abdelatif, Ismail M.M. Elsemary”Experimental Study on the Performance of Evacuated Tube Solar Collectors”Engineering Research Journal (ERJ)/ 47/ 50-56, 2021.
6. Ahmed A. Altohamy, M.A. Sharafeldin, M.A. Abdelrahman, Ahmed A.A. Attia, Ismail M.M. Elsemary”An experimental study of a newly designed freezing desalination unit equipped with reversed vapor compression cycle”Case Studies in Thermal Engineering/ 28/ 2021.
7. Y. K. Al-azmi, R.Y. Sakr, O.E. Abdelatif, Ismail M.M. Elsemary”Experimental Investigation of an Evacuated Tube Heat Pipe Solar Collector Using Different Fluids”Engineering Research Journal (ERJ)/ 51/ 1-12, 2022.
8. Islam M. Mesallam, Ahmed A.A. Attia, Khairy H. El-Nagar, Ismail M.M. Elsemary” An Experimental Evaluation of a Developed Flame Holder Supplied with Two Air Sources” Engineering Research Journal (ERJ)/ 51/ 53-60, 2022.
9. Islam M. Mesallam, Ahmed A.A. Attia, Khairy H. El-Nagar, Ismail M.M. Elsemary” Experimental Study on Combustion Performance of Diffusion Jet Flames Using Developed Flame Holder” Engineering Research Journal (ERJ)/ 52/ 12-17, 2023.
10. Islam M. Mesallam, Ahmed A.A. Attia, Khairy H. El-Nagar, Ismail M.M. Elsemary” Experimental investigation on a diffusion jet flame performance using a developed flame holder supplied with air from a concentric pipe” Alexandria Engineering Journal 69, 561–570, 2023.

**The most recent professional development activities**

N/A