Curriculum Vitae (CV)

Saleh Sobhy Abdelhady Elsayed

Professor Associate at the Higher Technological Institute, 10th of Ramadan City,Egypt.

Personal Information:

Academic Rank: Professor Associate

Department: **Mechanical Engineering**

Specialization: **mechanical design and production engineering**

Position: **Lecturer**

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Education:

Higher Technological Institute

10th of Ramadan City

Degree	Discipline	Institution	Year
Ph.D.	**Mechanical Design and Production**	**Faculty of Engineering,Zagazig University**	**2020**
M.Sc.	**Mechanical Power engineering**	**Faculty of Engineering, Mansoura University**	**2014**
B.Sc.	**Mechanical Power Engineering**	**Faculty of Engineering,Zagazig University**	**2006**

Academic Experience:

Lecturer - Mechanical Engineering Department, Higher Technological Institute (HTI), 10th of Ramadan city, Egypt from 1/1/2020 to now.

Teaching Assistant - Mechanical Engineering Department, Higher Technological Institute (HTI), 10th of Ramadan city, Egypt from 2014 2019.

Demonstrator-Mechanical Engineering Department, Higher Technological Institute (HTI), 10th of Ramadan city, Egypt from 2007 to 2014.

Research interests:

- Nano Technology and Nano Carbons
- Electro-Spinning and Nano Fibroses Structures
- Powder Metallurgy and Nano Reinforcements
- Polymer Composites and CNTs
- Tribology and wear Characteristics
- Formability and Nano Crystalline
- Friction Stir Welding and Friction Stir Processing

Publications:

- **Saleh S Abdelhady,**Said H. Zoalfakar,M. A. Agwa and Ashraf A. Ali "Electrospinning process optimization for Nylon 6, 6/Epoxy hybrid nanofibers by using Taguchi method" *Materials Research Express, 2019, 6.9: 095314*
- **Saleh S Abdelhady,**Said H. Zoalfakar,M. A. Agwa and Ashraf A. Ali " Mechanical and Thermal Characteristics of Optimized Electrospun Nylon 6, 6 Nanofibers by Using Taguchi Method"*Nano, 2019, 14.11: 1950139*
- **Saleh S Abdelhady,**Said H. Zoalfakar,M. A. Agwa and Ashraf A. Ali "Treated basalt fibers reinforced nylon 6, 6/epoxy hybrid nanofibril

composites" *Journal of Thermoplastic Composite Materials, 2022, 35(4), 555-569.*

- **Saleh S Abdelhady** and **Rehab E. Elbadawi** " WELDING PARAMETERS EFFECT ON THE MECHANICAL PROPERTIES OF ALUMINUM ALLOYS" *JOURNAL OF THE EGYPTIAN SOCIETY OF TRIBOLOGY, VOLUME 19, No. 2, April 2022, pp. 24 - 35 ISSN 2090 – 5882.*

- **Saleh S Abdelhady**, Atta, M. M., Megahed, A. A., Abu-Hasel, K. A., Alquraish, M., Ali, A. A., & Zoalfakar, S. H. (2022). Modeling electrospun PLGA nanofibers' diameter using response surface methodology and artificial neural networks. *Journal of Industrial Textiles, 52, 15280837221142641.*
- **Saleh S Abdelhady**, Elbadawi, R. E., & Zoalfakar, S. H. (2022). Fabrication of Electrospun Exfoliated Graphite Nanosheets/Polystyrene composite nanofiber mats. *Journal of Thermoplastic Composite Materials, 08927057221129489.*
- **Saleh S Abdelhady**, Elbadawi, R. E., & Zoalfakar, S. H. (2023). Investigation of the microstructure, mechanical and wear performance of friction stir-processed AA6061-T6 plate reinforced with B4C particles surface composite. *Journal of Composite Materials, 00219983231171286*
- **Saleh S Abdelhady**, Elbadawi, R. E., & Zoalfakar, S. H. (2023). Metal matrix composite fabricated from electrospun PAN, EGNS/PAN nanofibers and AL 5049 alloy by using friction stir processing. *The International Journal of Advanced Manufacturing Technology, 1-13.*
- **Saleh S Abdelhady**., El-Desouky, A. R., Kassab, A. M. F., Barakat, W., & Zoalfakar, S. H. (2023). Optimization of electrospun chitosan/polyethylene oxide hybrid nanofibril composite via response surface methodology. *Journal of Thermoplastic Composite Materials, 089270572311880l7.*
- **Saleh S Abdelhady,** Elbadawi, R. E., & Zoalfakar, S. H. (2024). Multi-objective optimization of FSW variables on joint properties of AA5754 aluminum alloy using Taguchi approach and grey relational analysis. *The International Journal of Advanced Manufacturing Technology, 1-16*
- **Saleh S Abdelhady,** Ali, A. A., Zoalfakar, S. H., & Elbadawi, R. E. (2024). Central Composite Design and Response Surface Methodology for Optimizing the Diameter of Electrospun Polyamide-6, 6 Nanofiber Mat. *Nano, 2450022*

- **Saleh S Abdelhady**, Nabhan, A., Zoalfakar, S. H., & Elbadawi, R. E. (2024). Modeling of wear performance and surface roughness of AA6061-T6/B4C composite under dry sliding conditions by RSM. *Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 09544089241276692.*

- Saleh S Abdelhady**,** Rehab E. Elbadawi, and Said H. Zoalfakar. "Evaluation the effect of multi-pass friction stir processing on the wear, mechanical properties, and microstructure of the AA1050/ZrO2 surface nanocomposite." Discover Applied Sciences 6.10 (2024): 498

Certifications or Professional Registrations:

- Autocad(2D&3D)
- Solid works
- MS Teams
- Maintain Any Software Errors
- Very good dealing with (windows, Ms Word, Internet).

Teaching Experience:

- Mechanical Engineering Design (A)
- Mechanical Engineering Design (B)
- Stress analysis
- Strength of Materials
- Principles of Materials Science and Engineering
- Production Engineering
- Production Technology
- Engineering Drawing
- Industrial Engineering
- Engineering Mechanics
- Internal combustion engine
- Robotics