

DR. MOHAMED SALAH ABD-ELWAHED

Lecturer, Department of Mechanical Engineering, King Abdulaziz University

Education

<i>Degree</i>	<i>Field of Study</i>	<i>Institution</i>	<i>Year</i>
PhD	Industrial Engineering	Mansoura University (Egypt)	2014
MS	Industrial Engineering	Mansoura University (Egypt)	2006
BS	Mechanical Engineering	Zagazig University (Egypt)	1997

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Full or Coordinator, etc.)</i>	<i>Part Time</i>
10/2007	Now	King Abdulaziz University	Lecturer		Full
09/2010	12/2012	KACST (Saudi Arabia)	Assistant Researcher		P.T.
02/1999	02/2007	Workers University (Egypt)	T. A.		Full

Funded Research Projects and Patents from the Past Five Years

1. **September 2015 – August 2018:** Study of Impact of Implementation of Total Quality Management: An Assessment of the Saudi Industry (DSR, ~50, 000 SR).
2. **March 2019 – December 2019:** Using Artificial Intelligence Approaches for Assessment of Sustainable Manufacturing (DSR, ~ 40,000RS).
3. **September 2015 – August 2018:** “Sustainability Awareness in Modern Engineering Curriculum through Assessment”, (DSR, ~35,000 SR).
4. **March 2019 – October 2019:** Correlation between nano-structure and tribological parameters of Copper-ZrO₂ nanocomposites (DSR, ~ 35,000 RS).

Honours and Awards

2. **December 2015:** Certified Lean Six Sigma Green Belt, Edupristine, 201512LSSGB2727.
3. **August 2009:** Certified Internal Auditor for ISO 9001, Bureau Veritas, TRG.09.394.JDH.05.

Institutional and Professional Services (*administration, committees, units, etc.*)

1. **Current:** Teaching courses (MENG 130, MENG 452, and MENG 436).
2. **2012 – 2015:** Member of safety committee of faculty of engineering. (King Abdulaziz University).
3. **2008 – 2012:** Member of executive team of QMS (ISO 9001:2008) at Faculty of Engineering, King Abdulaziz University.
4. **August 1997 – present:** Registered Professional Engineer (Egypt).
5. **September 2015 – present:** Saudi Quality Council (SQC) - Member.

Principal Publications/Presentations from the Past Five Years

1. Abdelwahed, M. S., A. Wagihb, and I.M.R., (2019). "Correlation between micro/nano-structure, mechanical and tribological properties of copper-zirconia nanocomposites", *Expert Systems with Applications* 37, 1035–1042.
2. M. S. Abdelwahed and M. A. El-Baz, (2018). "Impact of Implementation of Total Quality Management: An Assessment of the Saudi Industry", *South African Journal of Industrial Engineering*, Vol 29(1), pp 97-107.
3. T. T. El-Midany, M. A. El-Baz, M. S. Abdelwahed, (2013). "Improve Characteristics of Manufactured Products Using Artificial Neural Network Performance Prediction Model", *Inational Journal of Recent advances in Mechanical Engineering (IJMECH)* 2, 23–34.
4. M. S. Abdelwahed, M. A. El-Baz and T. T. El-Midany, (2012). "A Proposed Performance Prediction Approach for Manufacturing Processes using ANNs", *International Journal of Industrial and Manufacturing Engineering* 6, 68–73.
5. Essam B. Moustafa, Samah Mohammed, Sayed Abdel-Wanis, M. S. Abd-Elwahed, et al. (2016). "Taguchi optimization for AA2024 / Al₂O₃ surface composite hardness fabricating by Friction stir processing." *International Research Journal of Engineering and Technology (IRJET)*, 3(11), 1035–1042.
6. T. T. El-Midany, M. A. El-Baz, M. S. Abd-Elwahed, (2010). "A Proposed Framework For Control Chart Pattern Recognition In Multivariate Process Using Artificial Neural Networks", *Expert Systems with Applications* 37, 1035–1042.