Dr. Nizar Jummah Sasi Ramadan

Assistant Professor in Mechanical Engineering

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Publications

1. Ramadan, N., & Alhrari, M. S. A. (2025). The Effect of Submerged Arc Welding Parameters on the Mechanical Properties of Special Steel (A516-60 Steel). American Journal of Engineering Research (AJER), 14(10), 28–34.
2. Shuya, S. A. A. T., & Ramadan, N. (2025). A Comparative Study Between TIG and MIG Welding Process and Their Effect in Tensile Test of Welding Joint of Dissimilar Metals (Low Carbon Steels & 316 Stainless Steel). International Journal of Engineering Research and Development, 21(10), 73–79.
3. Alhrari, M. S. A., & Ramadan, N. (2025). The Effect of Submerged Arc Welding Parameters on the Morphology and Mechanical Properties of Special Steel A516-60 Steel: A Literature Review. International Journal of Engineering Research and Development, 21(10), 58–64.
4. Aboubakr Saeid Alzineen, S. G. K., & Ramadan, N. (2025). Internal Audit as a Mechanism for Improving the Efficiency of Cash and Liquidity Management. Surman Journal for Science and Technology, 7(2), 118–126.
5. Abubaker, S. S., Elbakoush, F. E., Ramadan, N., Sultan, S. A., & Budar, M. R. (2024). Design and Simulation of Polymer Needles to Produce by Injection

➢ Personal information:

- ➢ Name: Nizar Jummah Sasi Ramadan
- ➢ Date and place of birth: 07/10/1981 Alzawia
- ➢ Nationality: Libyan.
- ➢ Languages: Arabic, English.

Qualifications:

- ✓ 2002: Bachelor's degree in Mechanical Engineering and Production from Sirte University, College of Petroleum Technology, Brega (formerly Bright Star University).
- ✓ 2010: Master's degree in Mechanical Engineering from the Libyan Academy, Janzour, Libya.
- ✓ 2016: Master's degree in Business Administration from Atilim University, Ankara, Turkey.
- ✓ 2018: PhD in Mechanical Engineering from Atilim University, Ankara, Turkey.

Personal experiences:

- ✓ 2005–2010: Teaching Assistant at Sorman College of Science and Technology, Sorman (formerly the Higher Institute of Comprehensive Professions, Sorman).
- ✓ 2010: Faculty Member (Assistant Lecturer) at Sorman College of Science and Technology, Sorman.
- ✓ 2019: Faculty Member (Lecturer) at Sorman College of Science and Technology, Sorman.
- ✓ 2022: Faculty Member (Assistant Professor) at Sorman College of Science and Technology, Sorman.
- ✓ 2008: Honored as one of the distinguished teaching assistants in the college (Decision No. 44/2008).
- ✓ 2012–2010:Appointed Head of the Technical and Engineering Affairs Department, responsible for managing laboratories, workshops, and technical facilities at the college.
- ✓ 2010:Deputy Head of the Examination Committee for the Fall 2010/2011 semester.
- ✓ 2010 :Received an award for outstanding performance as Head of the Technical and Engineering Affairs Department.
- ✓ 2012 :Member of the Editorial Board of the Student Magazine, aimed at developing student awareness, creativity, and innovation.
- ✓ 2012 :Assigned to the General Resources Department until departure to pursue Ph.D. studies.
- ✓ 2019 :Head of the Study and Examination Department, Sorman College of Science and Technology.
- ✓ 2019 :Chairman of the Examination Committee for the Spring 2019 semester.

Molding Machine. Surman Journal of Science and Technology, 6(1), 001–015.
6. Madi, A. M., Ramadan, N. R., Kashada, A., & Bisher, K. J. (2024). Degradation of Polymer Insulators Used in Electrical Transmission Lines under the Rate of Bond Breaking. Surman Journal of Science and Technology, 6(1), 016–028.
7. Ramadan, N., & Alhasoume, Y. M. (2024). Financial Development and Economic Growth of the United Kingdom. Surman Journal of Science and Technology, 6(1), 029–041.
8. Abujnah, N., & Ramadan, N. (2024). Dynamic Analysis of a Cracked Beam under Moving Load Based on Modified Adomian Decomposition Method. Surman Journal of Science and Technology, 6(2), 103–120.
9. Maiuf, A., & Ramadan, N. (2024). The Acetic Acid Production by Modeling Oxidation of Ethylene with Aspen Plus. Surman Journal of Science and Technology, 6(2), 139–149.
10. Ramadan, N., & Etomi, I. O. S. (2024). Impact of Pollution on Leakage Current in Polymeric Insulators: Time and Frequency Domain Analysis. Surman Journal of Science and Technology, 6(2), 093–102.
11. Abubaker, S. S., Ramadan, N. R., Sultan, S. A., & Budar, M. R. (2023). Investigation of the Effect of Temperature and Time of Case Hardening on the Mechanical Properties and Microstructure of Low Carbon Steel (AISI 1020). Surman Journal of Science and Technology, 5(2), 028–036.
12. Ramadan, N., Embaia, M. M., & Elhamrouni, H. M. (2023). Laser Beam Welding Effect on the Microhardness of Welding Area of 304 Stainless Steel & Low Carbon Steel. Surman Journal of Science and Technology, 5(1), 018–030.
13. Ramadan, N., & Osman, K. A. (2021). Isothermal Transformation Temperatures and Its Effect in Hardiness of Pearlite Eutectic Steels R350HT Rails. Surman Journal of Science and Technology, 3(1), 028–036.
14. Ramadan, N., Khalifa, S. G., & Moftah, H. A. (2021). The Influence of the Quality of Libyan Banks' Services on Achieving Customer Satisfaction. Surman Journal of Science and Technology, 3(1), 037–046.
15. Ramadan, N., & Alfares, H. (2020). Optimize and Improve the Welding Nugget in the Resistance Welding Process of Carbon Steel by Means of Surface Response Method. Surman Journal of Science and Technology, 2(3), 018–007.
16. Ramadan, N., & Tur, K. (2017). Process Design Optimization for Welding of the Head Hardened R350HT Rails and Their Fatigue: A Literature Review. International Journal of Engineering Research and Development, 13(1), 49–55.

- ✓ 2019 :Member of the Central Examination Committee for the Secondary Certificate Examinations (Sorman).
- ✓ 2020 :Appointed Dean of Sorman College of Science and Technology.
- ✓ 2020 :General Supervisor of Sorman Journal of Science and Technology (a peer-reviewed biannual scientific journal).
- ✓ 2020 :Chairman of the Examination and Monitoring Committee for Secondary Certificate Examinations (first and second rounds – Boys, Sorman).
- ✓ 2021: Member of the Scientific Committee of MISTA 2021 (1st Maghreb International Conference on Control Sciences and Computer Engineering).
- ✓ 2021: Member of the Scientific Committee of ICESA 2021 (International Conference on Electrical Systems and Automation).

Previous Professional Roles

- ✓ 2012–2006: Part-time Petroleum Inspector, Intercontinental Cargo Survey Company.
- ✓ 2010-Obtained an International Petroleum Inspectors Certification (IFIA), accredited by the British Consulate in Tripoli – covering inspection and conformity in the fields of oil, gas, and petrochemicals.
- ✓ 2010: Head of the Oil and Gas Department, Intercontinental Cargo Survey Company – responsible for operations at Zawiya Refinery, Mellitah Port, Bouri Offshore Field, and Farwah Offshore Field.

Academic IDs

- Google Scholar. https://scholar.google.com/citations?user=85V3QrYAAAAJ&hl=ar
- Research Gate. https://www.researchgate.net/profile/Nizar-Ramadan-2/research
- Academia. https://independent.academia.edu/NizarRamadan
- https://orcid.org/0000-0001-8296-058X.
- Linkedin. https://ly.linkedin.com/in/nizar-ramadan-75013692

Scientific interests

- ✓ Scientific research and academic curriculum development in the fields of Mechanical Engineering and Management.
- ✓ Supervising students and fostering the growth of young researchers.
- ✓ Participation in local and international scientific conferences and reviewing research papers.
- ✓ Academic leadership and improving institutional performance and quality assurance in higher education.
- ✓ Keeping up with the latest advancements in energy systems, oil and gas industries, and manufacturing technologies.

17. Ramadan, N., Tur, K., & Konca, E. (2017). Design and Simulation of an Apparatus for the Post-Weld Controlled Accelerated Cooling of R350HT Head Hardened Rail Joints. In 3rd Iron and Steel Symposium (UDCS'17), Karabük, Turkey, 463–469.
18. Ramadan, N., & Tur, K. (2017). Design and Simulation of an Apparatus for the Post-Weld Controlled Accelerated Cooling of R350HT Head Hardened Rail Joints. (Conference Paper).
19. Ramadan, N., Tur, K., & Konca, E. (2017). Process Design Optimization for Welding of the Head Hardened R350HT Rails and Their Fatigue: A Literature Review. International Journal of Engineering Research and Development, 13(1), 49–55.
20. Ramadan, N., & Boghdadi, A. (2020). Parametric Optimization of TIG Welding Influence on Tensile Strength of Dissimilar Metals SS-304 and Low Carbon Steel by Using Taguchi Approach. American Journal of Engineering Research (AJER), 9(9), 07–14.

- ✓ Voluntary and community service within academic and sports organizations.
- ✓ Reading in the fields of modern management, leadership, and human development.
- ✓ Engineering and Software Skills such as Microsoft Office Suite, MATLAB, ANSYS Software, Minitab, and SPSS.