



Kirkuk Technical  
Engineering College



Northern Technical  
University





Department of Power Mechanical  
Techniques Engineering

## Curriculum Vitae













Personal Information			
Name	Sherwan Mohammed Najm	Employee ID	
Degree	PhD	Academic title	Teacher
Workplace	Northern Technical University	Faculty	Technical Engineering College, Kirkuk
Department	Power Mechanical Techniques Engineering	Position	Head of Department
General specialization	Mechanical Engineering	Specific Specialization	Metal forming
Country	Iraq	Province	Kirkuk
Academic email	<a href="mailto:sherwan@ntu.edu.iq">sherwan@ntu.edu.iq</a>	phone number	+964-750-156-4477

Academic Qualifications				
Degree	University Name	Date of granting the Degree	Specialization	Granting Country
PhD	Budapest University of Technology and Economics	12/22/2022	Mechanical Engineering Metal Forming	Hungary
Master's	Middle Technical University	18.08.2014	Die Engineering Techniques	Iraq
Bachelor's	Middle Technical University	10.07.2006	Die and Tool Engineering Techniques	Iraq

Research Activity		
Published Papers		27
Conferences and seminars		Yes
Memberships in Scientific Associations and Journals		Yes
Editor for a special issue of Materials journal (Impact Factor: 3.8)	<a href="#">Forming Technologies and Mechanical Properties of Advanced Materials - 2nd Volume</a>	
Member of The Canadian Journal of Mechanical Engineering Research	<a href="#">ISSN(Print): 1927-0607</a> <a href="#">ISSN(Online): 1927-0615</a>	
H-Index in Scopus		12

## Academic Profiles on Research Platforms

Clarivate, Web of Science	 Web of Science	
Scopus	 Scopus	
Resurgence Gate	 ResearchGate	
Orchid	 ORCID ID	
Google Scholar	 Google Scholar	

## Awards and Innovations

Granting Body	Title of Awards or Innovation
International Measurement Confederation (IMEKO) & EUROLAB aisbl	Certificate of Award for Best Youth Scientific Research and Presentation Award
Springer – Physics and Astronomy, MPAS Korean Journals, London, UK	Most Cited Article Award

## Scientific and Teaching Experiences

<b>Undergraduate Studies</b>	Yes
<b>Postgraduate Studies</b>	No

## Supervision of Master's or Doctoral Dissertation:

Thesis or Dissertation Title	Program	Year
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## Research Interests

Metal forming, sheet metal forming, incremental sheet forming, mechanical simulation, numerical simulation, and mechanical properties.

## Published Papers

Title	Year
Experimental and Numerical Investigations of the Fatigue Life of AA2024 Aluminum Alloy-Based Nanocomposite Reinforced by TiO <sub>2</sub> Nanoparticles Under the Effect of Heat Treatment	2024
Application of the Gradient-Boosting with Regression Trees to Predict the Coefficient of Friction on Drawbead in Sheet Metal Forming	2024
Analysis of the friction performance of deep-drawing steel sheets using network models	2024
Current Trends in Metallic Materials for Body Panels and Structural Members Used in the Automotive Industry	2024
Applications of Incremental Sheet Forming	2024
Minimizing the Main Strains and Thickness Reduction in the Single Point Incremental Forming Process of Polyamide and High-Density Polyethylene Sheets	2023
Analysis of the Frictional Performance of AW-5251 Aluminum Alloy Sheets Using the Random Forest Machine Learning Algorithm and Multilayer Perceptron	2023
Investigation and machine learning-based prediction of parametric effects of single point incremental forming on pillow effect and wall profile of AlMn1Mg1 aluminum alloy sheets	2023
Modeling and parameter identification of coefficient of friction for deep-drawing quality steel sheets using the CatBoost machine learning algorithm and neural networks	2023
Recent Developments and Future Challenges in Incremental Sheet Forming of Aluminum and Aluminum Alloy Sheets	2022
Application of Artificial Neural Networks to the Analysis of Friction Behavior in a Drawbead Profile in Sheet Metal Forming	2022
Current Concepts for Cutting Metal-Based and Polymer-Based Composite Materials	2022
Incremental Sheet Forming of Metal-Based Composites Used in Aviation and Automotive Applications	2022
Parametric effects of single point incremental forming on hardness of AA1100 aluminum alloy sheets	2021
New advances and future possibilities in forming technology of hybrid metal–polymer composites used in aerospace applications	2021
Emerging trends in single point incremental sheet forming of lightweight metals	2021
Predict the Effects of Forming Tool Characteristics on Surface Roughness of Aluminum Foil Components Formed by SPIF Using ANN and SVR	2021
Artificial neural network for modeling and investigating the effects of forming tool characteristics on the accuracy and formability of thin aluminum alloy blanks when using SPIF	2021
Experimental and numerical investigation of the single-point incremental forming of aluminum alloy foils	2020
Lubricants and parameters affecting hardness in SPIF of AA1100 aluminium	2020
Study on influencing parameters of flat and hemispherical end tools in spif of aluminum foils	2020
Heat transfer and fluid flow over a bank of circular tubes heat exchanger using nanofluids: CFD simulation	2020
Experimental Investigation on the Single Point Incremental Forming of AlMn1Mg1 Foils using Flat End Tools	2018