

## **CURRICULUM VITAE**

<b>Name :</b>	Hussein Mohammed Ali Ibraheem
<b>Designation :</b>	Prof. Dr. in Mechanical Engineering
<b>D.O.B :</b>	11-4-1961, Baghdad, Iraq
<b>Marital Status :</b>	Married / 3 Children
<b>Nationality :</b>	Iraq
<b>Religion :</b>	Muslim
<b>Permanent Address :</b>	Northern Technical University, Technical College / Mosul Mosul, IRAQ.
<b>Phone Number :</b>	Mobile + 964 7730 515153
<b>E-mail :</b>	<a href="mailto:alabadi.hussein@ntu.edu.iq">alabadi.hussein@ntu.edu.iq</a>
<b>E-mail (College) :</b>	<a href="mailto:techcol_mosul@yahoo.com">techcol_mosul@yahoo.com</a>



### **Degrees:**

1. PhD in Mechanical Engineering / Applied Mechanics (2010-2013), Turkey
2. MS.C in Mechanical Engineering (1989-1990), Iraq
3. BS.C in Mechanical Engineering (1984-1985), Iraq

### **Research Gate:**

[https://www.researchgate.net/profile/Hussein\\_Ali25/scores](https://www.researchgate.net/profile/Hussein_Ali25/scores)

RG Score 6.12

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### **Researcher ID:**

**F-9730-2019**

URL: <http://www.researcherid.com/rid/F-9730-2019>

### **Scopus Index:**

<https://www.scopus.com/authid/detail.uri?authorId=55778895100>

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### **Publon Account:**

<https://publons.com/researcher/1729107/hussein-ali/>

**Google Scholar:**

[https://scholar.google.com/citations?hl=en&user=F1Pt3XcAAAAJ&view\\_op=list\\_works&gmla=AJsN-F4rq6Vt05XGQBR4ptqLN5-oWq60wodQVifNe9BOefy6MQ5r4Y1UxDTJcli48bzzefEutaZiyTj1EXH4gdEAxHk-rq1GRg](https://scholar.google.com/citations?hl=en&user=F1Pt3XcAAAAJ&view_op=list_works&gmla=AJsN-F4rq6Vt05XGQBR4ptqLN5-oWq60wodQVifNe9BOefy6MQ5r4Y1UxDTJcli48bzzefEutaZiyTj1EXH4gdEAxHk-rq1GRg)

**Orcid:**

<https://orcid.org/0000-0001-8207-7092>

**Teaching Experiences:**

1. Teaching Experience for Master Degree Program & Diploma Program.
2. Teaching Experience in Engineering Mechanics (statics and dynamics)
3. Teaching Experience in Mechanic of Material
4. Teaching Experience in Mechanical drawing
5. Teaching Experience in Machine Design.
6. Supervision For Postgraduate Students.
7. Under graduate Supervision for many Years.

**Training Programs & Experiences :**

1. Training in Hottinger Baldwin Messtechnik GMBH / Germany, on Strain gauges and its application Field, October 1987.
2. Training in Schenck Company / Germany, on Mechanical Testing Labs, January, 1988.
3. A participant in the UNISCO-Iraq with the supporting of Canadian International Agency for Development, which is concerned with developing the contract training centers in the Technical College / Mosul held in Amman, Jordan in November 2008 & February 2009.

4. Practical Experiences in Northern Technical University Labs. Included:
  - Mechanical Testing.
  - Strain gauges' application.
  - Load cell design.
  - Solving difficulties in welding materials.
5. Training on Mechanical Testing Machines/Schenck Company, Germany
6. Experimental Work using Mechanical Testing Labs. Of Nanjing University Aeronautic & Astronautic of Nanjing University/ China

### **Published Papers:**

1. Study the effect of pre strain in the oqbiaxial stretching on the forming limit diagram of aluminum alloy sheets 2024T3. Vol.24, No.2 (2011). pp.57-69, Al Techani Journal (2010), Iraq
2. A comparative study on the use of Drilling and Milling Processes in Hole Making of GFRP Composite (2013). Sadhana - Academy Proceedings in Engineering Science. Vol.38, issue4(2013), pp743-760. India
3. Experimental Analysis of Hole Making in GFRP Composite Using Abrasive Water Jet Cutting Technology (2013). Applied Mechanics and Materials. Vols. 325-326 (2013), pp 1392-1398.Switzland
4. Numerical optimization of hole making in GFRP composite using abrasive water jet machining process. Journal of the Chinese Institute of Engineers. Vol. 38, issue1 (2015), pp 66-76. China
5. Cut Quality and Strength Evaluation in Hole Making of GFRP Composite Using Laser Beam Cutting Technology. Vol. 31, number 1-2(2015). pp 71- 95. Lasers in Engineering.
6. Dimensional accuracy and strength comparison in hole making of GFRP composite using Co2 laser and abrasive water jet technologies. Indian

Journal of Engineering & Materials Science Vol. 22, April 2014

7. Design & Manufacturing of Pin- on- Disc Wear Testing Apparatus. Kirkuk University Journal Scientific Studies. (2017).
8. A review Study on The Traditional Machining of Composite Materials. Journal of Research Update in Polymer Science. Vol.6, issue 4 (2017), pp 142-146.
9. Study The Microstructure and Impact Toughness of Welded Joints for Weldox 700MC High Strength Steel. International Journal of Mechanical Engineering and Technology Vol. 9, issue 9 (2018), pp402-408.
10. A numerical approach for solving problems in robotic arm movement, Production and Manufacturing Research, vol.6, No.1, (2018), pp.385-395
11. Investigating the impact of tool inertia on machinability of a  $\beta$ -titanium alloy using tool deflection and acoustic emission, Proceeding Journal of Mechanical Engineering Part B, Journal of Engineering Manufacturing, vol.1-16 (2018).
12. A statistical Approach for Finding Influential Factors in Respect of Energy Consuming in a Car Passenger. MATECA Web of Conferences, 213, 04002 (2018).
13. Experimental analysis of hole making in GFRP composite using abrasive water jet cut technology. Applied Mechanics and materials, vol.325-326, pp. 1392-1398 (2013).
14. Experimental Study of a Dry Sliding Wear for a Different Materials Using Pin on Disc Apparatus. Materials Science Forum, vol. 1021, pp. 78-86 (2021).
15. Study the Machining Accuracy in Hole Reaming of Medium Carbon Steel Using Ultrasonic Vibration Method. Journal Européen des Systèmes Automatisés, vol. 55, No. 4, pp. 527-533 (2022).
16. Mathematical Model for the Temperature Distribution on the Surface of Two Aluminum Alloys Welded by Friction Stir Welding. Welding Equipment and Technology, vol. 33(2022).

17. Developing a Work Roll Mode by Analyzing the Mechanism Influence Through Analytic Calculation. International Journal of Applied Mechanics and Engineering, vol.28, No.4, pp-1-9(2023).
18. A review Study on Non-Traditional Machining of Composite Materials. International Journal of Science and Research, vol.12, issue 11(2023).
19. Stress Distribution in Cantilever Beams with Different Hole Shapes: A Numerical Analysis. International Journal of Computational Methods and Experimental Measurements, vol.11, No.4, pp.205-219(2023).
20. A comparative study on the use of laser beam and abrasive water jet in hole making process of woven laminated GFRP. Materials Research Proceedings, vol.31, pp. 212-226(2023).
21. Designing Cantilever Models from Various Materials and Comparing Them When They are under Constant Load and Have Holes. Journal of Composite and Advanced Materials, vol.34, No.3, pp.363-377(2024).
22. Analyzing the Heat Treatment Flaws in Carbon Steel. Communications on Applied Nonlinear Analysis, vol.32, No.9s(2025).

#### Published Books:

1. Conventional & Non-Conventional Machining of Glass Fiber Composite Material, Scholar Press publisher, 2015 (Germany).
2. Chapter 8 in the book: Hole Making Technologies for Composites, Advantages, limitations and Potential (Experimental Analysis of Hole Making in GFRP Composite Using Laser Beam Cutting Technology), Woodhead Publishing Series in Composites Science and Engineering, 2017.

#### Conferences:

1. Experimental Analysis of Hole Making in GFRP Composite Using Laser Beam Cutting Technology, 4<sup>th</sup> International Conference on Recent Advance in Composite Materials (ICRACM 2013), International Center, Goa, India

2. Experimental Analysis of Hole Making in GFRP Composite Using Abrasive Water Jet Cutting Technology, 2013 The 2nd International Conference on Manufacturing Engineering and Process (ICMEP 2013), Vancouver, Canada
3. A statistical Approach for Finding Influential Factors in Respect of Energy Consuming of a Car Passenger, 2018 6<sup>th</sup> Asia Conference on Mechanical & Materials Engineering. Seoul, South Korea, June 15-18, 2018
4. A Comparative Study on the Use of Laser Beam and Abrasive Water Jet in Hole Making Process of Woven Laminated GFRP, International Conference on Advanced Topics in Mechanics of Materials, Structures and Construction. Prince Mohammad Bin Fahd University, KSA March 12-14, 2023

#### **Paper to be Published:**

1. Numerical Model to Investigate the Effect of Hole Size on the Stress Distribution of Cantilever Beam Under Different Conditions
2. Designing A Cantilever Models from Various Materials and Comparing Them when They Are Under Constant Loads and Have A holes

#### **Members & Activities:**

1. Academic Member of the Athens Institute for Education and Research belonging to the Mechanical Research Unit.
2. Editorial Board Member of the International Journal of Engineering Research and Advanced Technology(IJERAT).
3. Editorial Board Member of American Journal of Mechanical and Materials Engineering(AJMME).
4. Editorial Board Member of Scirea Journal of Mechanics.
5. Editorial Board Member of Scirea Journal of Mechanical Eng.

6. Reviewer for the International Journal of Engineering and Industries.
7. Reviewer for the International Journal of Advance Manufacturing Technology.
8. Reviewer for the 4<sup>th</sup> Global Conference on Material Science and Engineering.
9. Technical Program Committee (TPC) Member of the 9th World Congress on Engineering and Technology, Kunming, China (31Oct.-Nov. 2, 2022).
10. Technical Program Committee (TPC) Member of the International Conference on Advance Topics in Mechanics of Materials, Structures and Construction, KSA (March 5-7 2023)
11. Reviewer for the 11<sup>th</sup> International Conference on Nano & Material Science, Singapore (January13-15 2023).