

## CURRICULUM VITAE

**Full Name: Prof. Dr: Jmal Nayief Sultan**

**Gender: Male**

**Place of Birth: Mosul / Iraq**

**Nationality: Iraqi Linguistic Expertise: Arabic & English**

**Applied Mechanics Technics Engineering Department**

**Northern Technical University**

**Mosul, Iraq**

**Main field of specialization: Metallurgical Engineering**

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**Current Work Address: Professor, Technical Engineering**

**College of Mosul, Applied mechanics Techniqus Engineering department.**



### Scientific Titles:

No.	Scientific Title	Date Attaining the Title
1	Professor	15/5/2022
2	Assistant Professor	15/7/2002
3	Lecturer	15/4/1996
4	Lecturer Assistant	6/3/1989

### Scientific Titles and Experience:

Designation	Nature of work	Organisation	From	To	Years
Professor	Chairman of the Scientific Promotions Committee	Technical Collidge/ Mosul	2023	18/3/2025	2
Assistant Professor	Head of the Mechanical	Technical Institute /	10/ 3 /2019	2/8/2021	1.8 years

	Power Techniques Department + Teaching	Mosul			
Assistant Professor	Continuing Education Center Director of Northern Technical University + Teaching	Continuing Education Center of Northern Technical University and Teaching in Technical college / Mosul	2017	9 / 3 / 2019	2 years
Assistant Professor	Scientific Affairs Director of Northern Technical University	Scientific Affairs of Northern Technical University	2016	2017	1 year
Assistant Professor	Teaching	Foundation of technical Education / Technical college / Mosul	2011	2015	3.5 years
Assistant Professor	Teaching	Foundation of technical Education / Technical Institute/ Mosul	15 / 7 / 2002	2011	7.10 years
Lecturer	Teaching	Foundation of technical Education / Technical Institute/ Mosul	1 / 9 / 2000	14 / 7 / 2002	3.10
Lecturer	Teaching	High Technical Institute, Sabha , Libyan Republic.	1 / 11 / 1999	31 / 8 / 2000	0.10 years
Lecturer	Teaching	Foundation of	15 / 4 /	1 / 11 /	3.7 years

		Technical Education / Technical Institute/ Mosul	1996	1999	
Assistant Lecturer	Teaching	Foundation of Technical Education / Technical Institute/ Mosul	6 / 3 / 1989	14 / 4 / 1996	7.6 years
Total No. of years					33.6

### **Academic Profile:**

**Ph.D.** in Metallurgical Engineering in the Field of wear of metals and materials and the thesis entitled with “ Study of adhesive wear for different stacking fault energy alloys under dry sliding conditions” under the faculty of Production and Metallurgical Engineering at the University of Technology, Baghdad, Iraq. During 1992 – 10 April 1996.

**M.Sc.** In production Engineering in the Field of Tribology (Friction, Lubrication and Wear) and the dissertation entitled with “ Sliding wear of porous surfaces under lubricated conditions” under the faculty of Production and Metallurgical Engineering at the University of Technology, Baghdad, Iraq. During 1982 – 4 March 1985.

**BS.c.** In Production Engineering Technology under the faculty of Production and Metallurgical Engineering at the University of Technology, Baghdad, Iraq. During 1979 – 2 June 1982.

**B.Sc.** In Computer Science under the faculty of Mathematics and Computer Science Department, University of Mosul, Iraq. During 2002 – 16 July 2006.

### **Post Graduate Assignments:**

A- Chair man of Examining committee member of postgraduate theses of Mechanical Engineering Department / College of Engineering / University of Mosul.

- B- Examining committee member of postgraduate theses of Mechanical Engineering Department / College of Engineering / University of Mosul.
- C- Examining committee member of four postgraduate dissertations and theses for M.Sc, and PhD degree, University of Mosul, College of Science, Department of physics.
- D- Examining committee member of postgraduate dissertation for MSc degree, University of Mosul, Faculty of Dentistry.
- E- Chair man of Examining committee member of postgraduate doctorate theses, University of Mosul / Faculty of Dentistry.
- F- Evaluation of four postgraduate PhD thesis and MSc dissertations, University of Mosul, College of Science, Department of physics.
- G- Evaluating of many scientific papers that have been submitted to the journal of Foundation of Technical Teaching.
- H- Evaluating of many scientific papers that have been submitted for changing the scientific title from assistant lecturer to lecturer and from lecturer to assistant professor in both Technical foundation and the University of Mosul \ College of Engineering.
- I- Evaluating many scientific papers that have been submitted to six scientific conferences in the Mosul Technical Institute and Journal of Foundation of Technical Teaching.
- J- Evaluating a number of scientific papers to check plagiarism with master's theses and doctoral theses.
- K- Evaluating of many scientific papers that have been submitted to the Tikreet Journal for Engineering/ University of Tikreet.

### **Other Remarks:**

Alignment and maintenance of the rotating furnace that have been used in the super heating of the raw materials for the production of Portland building cement for Badosh industry, Kirkuk industry, Hamam Al-Alile industry and Kbessa industry at 2001 to 2004 - Iraq.

**Subjects Taught:**

<b>Subjects Taught</b>		
<b>Theory</b>		<b>Laboratories and work shops</b>
Mechanical Instrumentation	Design of Automotive Components and Systems	Metallurgical Laboratory
Manufacturing Processes	Theory of Metal Cutting I	Metal Forming Laboratory
Mechanical Properties of Materials	Theory of Metal Cutting II	Applied Thermodynamics Laboratory
Engineering Drawing	Theory of Vehicles	Metrology and Measurements Laboratory
Automotive Maintenance	Automobile Structure Design	Metal Cutting Laboratory
Machine Parts Design	Engineering Mechanics	Strength of Materials Laboratory
Physical Metallurgy	Mathematics	Thermal Engineering Laboratory
Production of an Electronic Instruments	Advanced Mathematics	Foundry Workshop
Mathematics and Statistical Data analysis.	Applied Thermodynamics	Turning, Milling and Grinding Workshop
Automotive Materials and Manufacturing Processes	Automation	
Metallurgy	Engineering Materials / For Under Graduate Study	
Metal Forming / For Under Graduate Study	Strength of Materials	
Advanced Engineering Materials / For Under Graduate Study	Metal Forming / For Post Graduate Students/ Diploma Study	
Fracture Mechanics/ For Post Graduate Study / Master Study	Advanced Engineering Materials / For Post Graduate Study / Master Study	

### **Research Fields Interests:**

Tribology (Friction wear and Lubrication of Metals and Materials).

Fatigue of Materials.

Composite Materials.

Heat Treatments and Mechanical Properties of materials.

Corrosion of Metals and alloys.

### **Published Papers in National and International Journals and Conferences.**

<b>No</b>	<b>Paper Title</b>	<b>Published by</b>	<b>Date</b>
<b>1</b>	Comparison of a Medium Carbon Steel Microscopic and Hardness Properties Following Different Heat-Treatments	Annales de Chimie: Science des Materiaux, 2024, 48(6), pp. 879–886	2024
<b>2</b>	Effect of Change in Sulfuric Acid Concentrations and Different Temperatures on Corrosion of Heat-Treated Moderate Carbon Steel	Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 2024, 124(1), pp. 21–27	2024
<b>3</b>	The Effect of Heat Treatment on the Hardness of Medium Carbon Steel	Revue des Composites et des Materiaux Avances, 2024, 34(4), pp. 417–425	2024
<b>4</b>	Investigation of the Corrosion of Heating Treatment Medium Carbon Steel in Sulfur Aqueous Solution	Revue des Composites et des Materiaux Avances, 2024, 34(3), pp. 277–286	2024

<b>5</b>	Mechanical Property Enhancement of Stainless Steel 12X18H10T Through nc-TiN Coating: A Simulation Study	Annales de Chimie: Science des Matériaux, 2024, 48(2), pp. 163–176	2024
<b>6</b>	Effect of the Cross-Sectional Shape on the Dynamic Response of a Cantilever Steel Beam Using Three Modal Analysis Methods	Mathematical Modelling of Engineering Problems, 2024, 11(3), pp. 664–672	2024
<b>7</b>	Stress Distribution in Cantilever Beams with Different Hole Shapes: A Numerical Analysis	International Journal of Computational Methods and Experimental Measurements, 2023, 11(4), pp. 205–219	
<b>8</b>	Effects of Repeated Heat Treatments on the Wear Resistance of Pre-Carburized Steel	International Journal of Heat and Technology, 2023, 41(4), pp. 1083–1095	2023
<b>9</b>	Fatigue Behaviour of Tempered and Isothermal Heat Treated AISI 5160 Leaf Spring Steel	Jurnal Teknologi, 2023, 85(3), pp. 15–24	2023
<b>10</b>	Finding the Weight Difference of a Rectangular Structure with a Parabolic Arc for Mathematical Models Made of Steel and other Composite Materials	WSEAS Transactions on Applied and Theoretical Mechanics, 2023, 18, pp. 178–19	2023

<b>11</b>	The Influence of Repeated Heat Treatments on The Propagation of Fatigue Cracking of Medium Carburized Steel	Journal of Mechanical Engineering, 2023, 20(3), pp. 387–408	2023
<b>12</b>	A Mathematical Model for Non-Linear Structural Analysis Reinforced Beams of Composite Materials	Mathematical Modelling of Engineering Problems, 2023, 10(1), pp. 311–333	2023
<b>13</b>	The Effect of Carburization and Repeated Heat Treatment with Different Solutions on the Fatigue Resistance of Medium Carbon Steel	International Journal of Heat and Technology, 2022, 40(6), pp. 1478–1484	2022
<b>14</b>	Comparison of the Influence of Temperature Change Distribution of Three Surface Regions on the Hardness of Two Dissimilar Aluminum Alloys Welded by Friction Stir Welding	International Journal of Heat and Technology, 2022, 40(4), pp. 1013–1023	2022
<b>15</b>	The Effect of Multi-Walled Carbon Nanotubes Additives on the Tribological Properties of Austempered AISI 4340 Steel	Journal Europeen des Systemes Automatises, 2022, 55(3), pp. 387–396	2022
<b>16</b>	The Difference in the Wall Thickness of the Helicopter Structure Are Made of	Mathematical Modelling of Engineering Problems, 2022, 9(2), pp. 313–324	2022



	Composite Materials with Another Made of Steel		
<b>17</b>	The Amount of Excess Weight from the Design of an Armored Vehicle Body by Using Composite Materials Instead of Steel	Revue des Composites et des Materiaux Avances, 2022, 32(1), pp. 1–10	2022
<b>18</b>	Corrosion Behavior of Thermal Seamless Carbon Steel Boiler Pipes	Annales de Chimie: Science des Materiaux, 2021, 45(5), pp. 399–405	2021
<b>19</b>	Effect of heat-treatment temperature on the corrosion behaviour of cold worked 6111 aluminium alloy	Journal of the Korean Society for Precision Engineering, 2021, 38(6), pp. 385–395	2021
<b>20</b>	Comparison of the resistance of solid shell of composite materials with other solid metal materials	2020 International in Multi-Disciplinary Conference Theme, “ Sustainable Development and smart planning” 30 – 28 June	2020
<b>21</b>	Dry sliding wear of AISI HNY3 exhaust valve materials	Foundation of Technical Education – AL – TAQANI Journal , 2011	2011
<b>22</b>	Effect of Germanium addition on the oxidation resistance of one Copper alloys .	The first Jordanian International conference of material science and engineering , 3 – 5 may 2005 Al – SALT – JORDAN.	3 – 5 may , 2005
<b>23</b>	Effect of nitriding variables on the sliding wear behavior of 9nitrided plain carbon steel compared to 9nitrided alloys steel.	Tikrit Journal of Engineering Science – University of Tikrit – College of Engineering – Vol.9, No.2, 2002.	2002
<b>24</b>	Effect of ductility on the wear	Engineering and Technology Journal-	2000

	properties of commercial purity Aluminum under dry sliding condition.	University of Technology- Baghdad – Iraq, suppl. Of No.3, Vol. 19, 2000.	
25	Mechanical wear study of fourth cylinder of a Volks Wagon – Passat four stroke engine.	The six scientific conference for Foundation of technical Education – Iraq , 1998	19998
26	. Effect of carburization variables on the wear behavior of carburized Steel against hardened high Carbon Steel.	The six Scientific Conference for Foundation of Technical Institutes , Iraq.	1998
27	Effect of grain size on the wear of Brass.	Engineering and Technology Journal- University of Technology- Baghdad – Iraq, Vol. 13, No.2, 1994	1994
28	Effect of compression ratio on the wear of medium Carbon Steel under dry sliding condition.	Engineering and Technology Journal- University of Technology – Baghdad – Iraq, Vol.13, No. 10, 1993.	1993
29	Comparison of the Resistance of Soild Shell of Composite Materials with other Soild Metal Materials	IMDC-SDSP 2020, June 28-30, Cyberspace Copyright © 2020 EAI DOI 10.4108/eai.28-6-2020.2298518	2020, June 28-30

### **Courses Attended:**

No.	Name	Organized By	Date
1.	The Arabian Training Course for Modern Cooling and Air Conditioning Technologies	Arabic Union for Technical Teaching – Damascus- Syria	2/8/1999
2.	Computer Aided Design	Mosul Technical Institute	23/4/1999
3.	Course in Word Processor on Computer	Mosul Technical Institute	4/8/1998
4.	Teaching Course 1 and	Center of Development Lecturers – Baghdad –	11/11/1989

	Teaching Course 2 (For the beginner lecturers)	Iraq	To 7/12/1989
5.	Management Teaching Course	Technical Institute / Mosul	1989
6.	Computer Aided Design	Technical Institute / Mosul	23 / 4 / 1999
7.	Course in Computer	Technical Institute / Mosul	10 / 2 /2001 to 15 / 2 / 2001
8.	Engineering Design Tools	Training program for Iraqi Participants in Egypt, TRIP – a Trilateral Iranian – Egyptian – German project	Nov. 08 till Nov 20 , 2006

### **Scientific Conferences, Symposiums and Seminars Attended**

No.	Conferences	Organized By	Date	Type of Participation
1	Comparison of the Resistance of Soild Shell of Composite Materials with other Soild Metal Materials	IMDC-SDSP 2020, June 28-30, Cyberspace Copyright © 2020 EAI DOI 10.4108/eai.28-6- 2020.2298518	2020, June 28- 30,	Publishing a scientific paper
2	The first Jordanian International Conference of Material Science and Engineering , AL – SALT , JORDAN	Al–Balqa Applied University	3-5 May 2005	Publishing a scientific paper
3	. The Six Scientific Conference of Technical Teaching Foundation	Foundation of Technical Teaching - Iraq	1998	Publishing a Scientific Paper.
4	The Six Scientific Conference of Technical Teaching Foundation.	Foundation of Technical Teaching – Iraq	1998	Chairman Assistant
5	The Third Scientific Conference	Foundation of Technical	1992	Publishing a Scientific

	of Technical Teaching Foundation.	Teaching – Iraq		Paper.
<b>6</b>	The Symposium of the 1 <sup>st</sup> Technical Institute / Mosul .	Foundation of Technical Teaching – Iraq	1990	Chairman of the session

### **Administrative Works:**

No.	Jobs or Position	Period	
		From	To
<b>1</b>	Chairman of the Scientific Promotions Committee/ Engineering Technical Colledge/ Mosul	2023	18/3/2025
<b>2</b>	Promotion Member Comeetee/ Engineering Technical Colledge/ Mosul	2023	2023
<b>3</b>	Head of the Mechanical Power Techniques Department.	2019	2/8/2021
<b>4</b>	Continuing Education Center Director of Northern Technical University.	2017	2018
<b>5</b>	Scientific Affairs Director of Northern Technical University.	2016	2017
<b>6</b>	Head of the Department of Refrigeration and Air conditioning Technology Engineering / Technical college / Mosul.	3/10/2011	2012
<b>7</b>	Head of the Department of Machines and Equipment's / Technical Institute / Mosul.	7/10/1995	6/5/2003
<b>8</b>	Dean Assistant for Evening Courses / Technical Institute / Mosul.	5/12/1998	20/7/1999
<b>9</b>	Head of the Department of Mechanics / Technical Institute / Mosul.	1/8/1990	7/12/1992
<b>10</b>	Supervisor of Mechanical Workshop / Technical	1/10/1989	13/7/1990

	Institute / Mosul		
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### **Borrowed or Sent Abroad:**

No.	Country	Reason	Duration	Period	
				From	To
1.	Lending Services to Libyan Republic	For Lecturing in the High Technical Institute At Sabha , Libyan Republic.	An academic year of study	1/11/1999	31/8/2000
2.	Syrian Republic - Damascus	Participation in the Arabic Course for Modern Cooling and Air-Conditioning.	10 days	24/7/1999	2/8/1999
3	Egypt Republic – Cairo	Engineering design tools	12 days	8/11/2006	20/11/2006

### **Scientific Committees and assignments:**

No.	Name of Committees or Assignments	Date
1.	Chairman of the Committee of Mechanical Power Techniques Department / Technical Institute / Mosul .	10/3/2019 – 2/8/2021
2.	Chairman of the Committee of the Department of Refrigeration and Air conditioning Technology Engineering / Technical college / Mosul.	3/10/2011 - 2012
3.	Member of the Consultant Group of the of Machines and Equipment department.	From 1995 to 2003
4.	Chairman of the Committee of the scientific researches in Technical Institute / Technical Institute / Mosul.	2002 – 2003
5.	Chairman of the Committee for Machines and Equipment Department / Technical Institute / Mosul.	From 1995 to 2003
6.	Chairman of the examining Committee for Machines and Equipment	1995 - 1996







	Department / Technical Institute / Mosul.	
7.	Member of the Examining Committee of Technical Institute / Technical Institute / Mosul.	1998-1999
8.	Minter of 2 <sup>nd</sup> Session of the Six Scientific Conference of the Technical Foundation Teaching.	1998
9.	Member of the Committee of Scientific Fairs in the 29 <sup>th</sup> Anniversary of the Foundation Ecology / Technical Institute / Mosul.	1998
10.	Chairman of the Committee for the Delivery and Scrutinizing Admission Forms for Occupational Education Students / Technical Institute / Mosul.	1998
11.	Member of the Examining Committee	1997 - 1998
12.	Member of Scientific Instruments Maintenance Committee / Technical Institute / Mosul.	1996-1997
13.	Chairman of the Committee for Examination Questions Printing in the Institute/ Technical Institute / Mosul.	1997
14.	Member of the Committee for Special Curricula Preparation of Laboratory Instruments and Tools / Technical Institute / Mosul.	1995-1996
15.	Chairman of the Examining Committee of the Department of Mechanics / Technical Institute / Mosul.	From 1990 to 1992
15.	Member of the Consultant Group in the Departments of Mechanics and Machines in the Foundation / Technical Institute / Mosul.	1990-1991
16.	Member of Written Test Committee for Fresher Students at the Technical Departments / Technical Institute / Mosul.	1989-1990
17.	Member of Scientific Symposium Held in the Institute / Technical Institute / Mosul.	1989-1990

### **Honoring and letters of thanks:**

Issued by	Number
Minister of Higher Education and Scientific Research/ Iraq.	10
Head of Foundation of Technical Teaching / Iraq.	22

Northern Technical University President	6
Northern Technical University President assistant for Scientific Affairs	4
Dean of Technical Institute / Mosul / Iraq	21
Dean of Technical College / Mosul / Iraq	6
Total. No	69

### **Academic and research accounts links:**

Academic and research accounts links	 <a href="https://scholar.google.com/citations?view_op=list_works&amp;hl=ar&amp;user=VWtuQAcAAAAJ">https://scholar.google.com/citations?view_op=list_works&amp;hl=ar&amp;user=VWtuQAcAAAAJ</a>  <a href="https://www.researchgate.net/profile/Jamal_Nayyef2">https://www.researchgate.net/profile/Jamal_Nayyef2</a>  <a href="https://publons.com/wos-op/researcher/1763695/jamal-navief-sultan/">https://publons.com/wos-op/researcher/1763695/jamal-navief-sultan/</a>  <a href="https://orcid.org/0000-0002-7560-7275">https://orcid.org/0000-0002-7560-7275</a>  <a href="https://www.scopus.com/authid/detail.uri?authorId=57224531473">https://www.scopus.com/authid/detail.uri?authorId=57224531473</a>  <a href="https://www.webofscience.com/wos/author/record/G-7006-2019">https://www.webofscience.com/wos/author/record/G-7006-2019</a>
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