

Dr.N.MATHIAZHAGAN

Kaikala Street, Thathanur Post,
Udayarpalayam Taluk, Ariyalur District,
Tamil Nadu - 621804 .



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CARRER OBJECTIVE

To pursue a challenging career that gives scope to enhance my knowledge and skills where I apply my goal to enhance productivity and profitability of the organization.

EDUCATIONAL DETAILS

Sl.no	Course	Institution	University / Board	Year of passing
1	Ph. D	Anna university Chennai	Anna University Chennai	MARCH 2017
2	M.E	Jayaram College of Engineering and Technology, Karattampatti	Anna University Tiruchirappalli	JUNE 2009
3	B.E	A.C. College of Engineering and Technology	Madurai Kamaraj University Madurai	NOV 2003
4	D.M.E	Kodai Anna Polytechnic, Kodaikanal	State Board of Technical Education, Chennai	NOV 1989

EXPERIENCE IN TEACHING: 23 years and 09 month

Sl.no	Designation	Organization	From	To	Year	Month
1	Principal	ARM College of Engineering College and Technology	20.11.2024	Till Date	0	4
2	Principal	Meenakshi Ramaswamy engineering College	1.06.2017	19.11.2024	7	5
3	Associate professor cum Vice principal	Meenakshi Ramaswamy engineering College	04.03.2014	31-05-2017	3	2
4	Asst professor cum HOD mechanical	Meenakshi Ramaswamy engineering College	02.09.2009	03-03-2014	4	6
5	HOD(Dep of Mechanical Engg)	Meenaakshi Ramasamy Polytechnic College	01.08.2007	1.09.2009	2	1

6	HOD (Dept of Automobile Science)	Meenaakshi Ramasamy Arts And Science College	07.06.2006	31.07.2007	1	1
7	Lecturer	Venkatesvara Polytechnic College	28.11.2003	19.05.2006	2	5
8	Instructor	Venkatesvara Polytechnic College	01.02.2001	27.11.2003	2	9
Total Experience 23 Years and 9 month						

EXPERIENCE IN INDUSTRIES

- **FOUR YEARS:** (7-9-1994 to 15-7-1998) Alagappa Cements (P)Ltd. Kilapalur
- **ONE YEAR:** (12-6-1993 to 11-6-1994) Dheeran Chinnamalai Transport Corp. Ltd. Trichy
- **TWO YEARS:** (4-8-1990 to 1-9-1992) Vengateswara Cements Ltd, Nachiyarpettai

EXPERIENCE IN OTHER ACTIVITIES

Act as Chief Superintendent in TNPSC Group I, II, IV and VAO Examinations,

Act as Chief Superintendent in Tamil Nadu Civil Supplies Corporation Examination,

Act as Chief Superintendent in postal examination,

Act as Chief Superintendent in Anna University technology Tiruchirappalli examinations,

Act as Chief Superintendent in Anna University Chennai examinations,

One Day Lecturer in **FDP “ME 2305-APPLIED HYDRAULICS AND PNEUMATICS”**

(Fluid Power Failures and its Troubleshooting) on 29.06.2014 FN at **Anna University Ariyalur Campus**

Life Membership in organization

The Indian institute welding (IIW INDIA)

The Indian society for technical education (ISTE) organization

Reviewer in journal

Sl no	JOURNAL
1	Int. J. Of Process Management and Benchmarking
2	Journal of Computational and Theoretical Nanoscience
3	Institute of Metal Materials and Technologies
4	Materials and Technology
5	Global NEST Journal

PUBLICATION

INTERNATIONAL & NATIONAL JOURNALS: 46

Web of Science: 07

Q1: 03

SL. No	Title of the Paper	Authors	Journal/ Volume/ Issue/ Year	Pages	
1	Recycling potential of 3D printed support waste as eco-friendly polymeric composites	N Mathiazhagan, P.Sabarinathan, M Tamilselvan, Narain Kumar	Progress in Rubber, Plastics and Recycling Technology (WoS)	1	21
2	A topological approach for optimizing the dimensional properties of various bioinspired periodic type honeycomb latticed carbon fiber reinforced glycol-modified poly (ethylene terephthalate) composite materials	Mathiazhagan, N., Sivakumar, N.K. Palaniyappan, S., Rahaman, M.	Polymer Composites , 2024 (WoS, Q1)	1	16
3	Influence of printing-based factors on the mechanical properties of hexagonal lattice-structured 3D printed novel walnut shell / polylactic acid composite	Mathiazhagan, N., Sivakumar, N.K. Palaniyappan, S., Rahaman, M.	Journal of Thermoplastic Composite Materials., 2024, 37(2), pp. 713–742	1	30
4	Effect of fused filament fabrication parameters on crashworthiness studies of hydroxyapatite particle reinforced PLA composite thin-walled tubes	N.Mathiazhagan, Sabarinathan P, Narain kumar S	Journal of the Mechanical Behavior of Biomedical Materials 138 (2023) 105611 (WoS, Q1)	1	18
5	Investigation on microstructural features and tensile shear fracture properties of resistance spot welded advanced high strength dual phase steel sheets in lap joint configuration for automotive frame applications	C.Rajarajan ,P.Sivaraj , TusharSonarc ,S.Raja N. Mathiazhagan	Journal of the Mechanical Behavior of Materials ,April 2022 (WoS)	52	63
6	Resistance spot welding of advanced high strength steel for fabrication of thin-walled automotive structural frames	C.Rajarajan P.Sivaraj TusharSonarc S.Raja N. Mathiazhagan	Forces in Mechanics, Volume 7, May 2022, 100084	1	13
7	"Establishing empirical relationships to predict the tensile shear fracture properties of Resistance Spot Welded Advanced High Strength Steel Lap joints"	C.Rajarajan P.Sivaraj TusharSonarc S.Raja N. Mathiazhagan	Manufacturing Technology Today, Volume ,20,11-12 Nov –Dec 2021	38	
8	Effect of AW and PWHT on properties of Laser Beam-Welded Ti/AL Dissimilar Joint	K. Kalaiselvan,K. Sekar,N. Mathiazhagan,S. Elavarasi	Journal of Manufacturing Technology Research Volume 13, Number 3-4 (WoS)	189	199

9	Resistance spot welding of advanced high strength steel for fabrication of thin-walled automotive structural frames	C.Rajarajan P.Sivaraj TusharSonarc S.Raja N. Mathiazhagan	Forces in Mechanics ,Volume 7, May 2022, 100084	1	13
10	Tensile Strength Enhancement of AISI 304 and AISI 1040 Dissimilar Friction Weld Joints using ANFIS Modelling	N.Mathiazhagan , I. Rajkumar	International Journal of Engineering and Advanced Technology , Volume-9, Issue-1, October 2019	818	825
11	Effect of Hybrid Composite (SIC, TIC&Y2O3) Reinforcement on AL7075 Alloy Using Powder Metallurgy	V.Pradeep , N.Mathiazhagan , T.Senthilkumar	International Journal on Mechanical and Production Engineering Volume 4: Issue 2 : May 2018	20	22
12	Development And Characterization Of Hybrid Composites (TIC-SIC-C) Reinforcement on AL Using Powder Metallurgy	B.Pandiyarajan, N.Mathiazhagan , T.Senthilkumar	International Journal on Mechanical and Production Engineering Volume 4: Issue 2 : May 2018	23	25
13	Thermal Resistance for Improve Thermal Efficiency in Gas Turbine Blades	V.Sathishkumar , B.Pandiyarajan , S.Mathiyazhagan N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 2 : April 2018	1	7
14	Fem Analysis of Stiffened Plates Using ANSYS	P. Deenathayalan , S.Mathiyazhagan N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 2 : April 2018	13	15
15	Experimental investigation of machining parameters for EDM using U- shaped electrode of AISI P20 tool steel	S.Selvakumar , B.Pandiyarajan , S.Mathiyazhagan N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 2 : April 2018	8	12
16	Experimental Investigation On Latent Heat by Using Paraffin Wax	R.vignesh , M.Mohan , p. Ajithkumar , N.Mathiazhagan , S.Mathiyazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 1 : March 2018	4	7
17	Development And Manufacturing Process Porcelain Insulator	C.P.Raja , B.Pandiyarajan , S.Mathiyazhagan N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 1 : March 2018	25	27
18	Evaluation Of Mechanical Properties Of Natural Fibre Reinforced Composite Material(SISAL)	Aruldoss.G , Kannadhasan.A , Aravindhan.M , S.Mathiyazhagan N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 1 : March 2018	21	24
19	An Investigate The Mechanical Characterization Of Al 7029 / Zirconium Oxide & Graphite Metal Matrix Composite	B.Muthukrishnan , S.Mathiyazhagan , N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 1 : March 2018	18	20

20	AUTOMATIC BRAKING SYSTEM	S.Sudhakar , V.Deepak , P.Prakash , S.Mathiyazhagan , N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 1 : March 2018,	13	17
21	Parametric Optimization Of Machining Parameters In Through Feed Centerles Grinding Process	P.Thirugnanasamp atham , B.Pandiyarajan , S.Mathiyazhagan , N.Mathiazhagan	International Journal on Mechanical and Production Engineering Volume 4: Issue 1 : March 2018,	8	12
22	Effect of heat treatment on mechanical properties and microstructure of Ti/Al sheet metal joint using laser beam welding'	Kalaiselvan, K, Elango, A, Nagarajan, NM, Sekar, K Mathiazhagan, N	International Journal of Additive and Subtractive Materials Manufacturing, Inderscience, (2017)Vol.X.	13	24
23	Studies on Interlayer Characteristics of Ti/Al Dissimilar Metal Joints Using Laser Beam	Kalaiselvan K, Elango A, Nagarajan NM, Sekar K Mathiazhagan N	Journal of Manufacturing Technology Research, Nova Science Publishers(2017) vol. 9, Issue 1-2 (WoS)	59	67
24	Evaluation of mechanical behaviour and micro structure analysis on al6063 and mg+sic	S. Thanarasu, S. Charles N.Mathiazhagan	International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 4, Issue 6, June (2016)	203	209
25	Experimental Analysis and Optimization of Weld Characteristics and Bead Geomtery Analysis for Stainless Steel 409 by GMAW Process	R. Rajasekar,V. Sathishkumar,R. Ayyasamy,N. Mathiazhagan	International Journal of Emerging Technologies in Engineering Research (IJETER) Volume 4, Issue 6, June (2016)	193	202
26	Experimental investigation and optimization of wire EDM process parameter	R.Sathish J.Rajendran N. Mathiazhagan,	International Journal on Scientific Research in Emerging Technologies, Vol. 2 Issue 4, July 2016	160	166
27	Design and Analysis of Piston by Using Composite Material (al-sic)	R.Rajkumar RP Babu N. Mathiazhagan	International Journal on Scientific Research in Emerging Technologies, Vol. 2 Issue 4, July 2016	154	159
28	Tribological Studies on Epoxy Resin Composite containing Silica as Reinforcement Material	K.Prabakaran A.Arun prasath, N. Mathiazhagan	International Journal on Scientific Research in Emerging Technologies, Vol. 2 Issue 4, July 2016	149	153
29	Experimental investigation of friction stir welding on magnesium alloy	M..Devar R. Ayyasamy N. Mathiazhagan	International Journal on Scientific Research in Emerging Technologies, Vol. 2 Issue 4, July 2016	139	148
30	Effect of Electrode Polarity Characterization Of Aluminium Alloy Based Composite Materials (Si,Mg,Cu) In Various Proportions	R.Baskaran S.Mathiyazhagan N. Mathiazhagan	International Journal on Scientific Research in Emerging Technologies, Vol. 2 Issue 4, July 2016	135	137

31	Effect of Electrode Polarity and Heat Input on Fusion Zone Characterization of Tig Welded Austenitic Stainless Steel	Thangabalu S.Mathiyazhagan N. Mathiazhagan	International Journal on Scientific Research in Emerging Technologies, Vol. 2 Issue 4, July 2016	130	134
32	Design and analysis of air intake system and filter of an automobile engine by using adding baffle	S.Albert kennedy A.Arun prasath, N. Mathiazhagan,	International Journal on Scientific Research in Emerging Technologies, Vol. 2 Issue 4, July 2016	125	129
33	Experimental Investigation on Phase Change Material	M.Aravindhan R. Ayyasamy N. Mathiazhagan	International Journal of Emerging Technologies in Engineering Research (IJETER)Volume 4, Issue 6, June (2016)	181	185
34	Gear Shaping Attachment in a Shaper Machine	P.Parthiban R. Ayyasamy N. Mathiazhagan	International Journal of Emerging Technologies in Engineering Research (IJETER)Volume 4, Issue 6, June (2016)	186	192
35	Optimization of Friction Welding Parameters For AISI304/AA6061 Dissimilar Metal Joint Using RSM/ANFIS'	N.Mathiazhagan T.Senthilkumar M.Chandrasekar	Asian Journal of research in social science and Humanities, vol. 6, no.8,2016	2089	2105
36	Performance Study Of Medium Carbon Steel And Austenitic Stainless Steel Joints: Friction Welding Process	N.Mathiazhagan T.Senthilkumar V,Balasubramanian Sathish Gandhi, VC	Oxidation Communications, vol.38, No 4A, 2015	2123	2134
37	Effect of Mechanical Properties and Microstructural Characteristics of Friction Welded Austenitic Stainless Steel Joints'	N.Mathiazhagan T.Senthilkumar V.Balasubramanian	Australian Journal of Basic and Applied Sciences, vol. 9, no.27,2015	267	276
38	Effect of mechanical properties and microstructure on medium carbon steel using friction welding	N.Mathiazhagan, T.Senthil kumar,	EETA' 15,Journal of Chemical and Pharmaceutical Sciences	355	359
39	Experimental investigation on phase change materials	S.Rajendrasiva T.Senthil kumar N.Mathiazhagan	EETA' 15,Journal of Chemical and Pharmaceutical Sciences	127	132
40	Experimental investigation of mwcnt on aluminium –silicon carbide composites	V.Pradeep N.Mathiazhagan, S.Mathiyazhagan	EETA' 15,Journal of Chemical and Pharmaceutical Sciences	122	126
41	Characteristic study of hybrid composites, (al-tic-mwcnt)	B.Pandiyarajan N.Mathiazhagan, M.Sachudhanandham	EETA' 15,Journal of Chemical and Pharmaceutical Sciences	117	121
42	Micromachining	V.Narendraprasad N.Mathiazhagan S.Rajendrasiva	EETA' 15,Journal of Chemical and Pharmaceutical Sciences	115	116
43	Tensile Properties and Microstructural Characteristics of Friction Welded Medium Carbon Steel Joints	N.Mathiazhagan T.Senthil Kumar	International Journal of Applied Engineering Research , vol. 9, no.27, 2014	9553	9559

44	Studies on Ti/Al Sheet Joint Using Laser Beam Welding – A Review	K. Kalaiselvan, A. Elango, N. M. Nagarajan, N. Mathiazhagan	WASET International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering Vol:8, No:4, 2014	795	798
45	Laser Beam Welding of Ti/Al Dissimilar Thin Sheets -A Literature Review	K. Kalaiselvan, A. Elango, N.M. Nagarajan, N. Mathiazhagan	WASET,International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering Vol:8, No:10, 2014	1774	1778
46	Effect of pulsed current TIG welding parameters on tensile, impact and fatigue properties of AA 6061 Aluminium Alloy	T.SenthilKumar V.Balasubramanian N. Mathiazhagan	International Journal of Engineering Research and Industrial Applications, , Vol. 3, 2010	79	102

BOOK PUBLICATION:

Book Name: **Principles of Management**

Publisher: Charulatha Publications

ISBN-13:978-93-5577-713-3

PAPERS PRESENTED IN NATIONAL CONFERENCE: 04

- **N.Mathiazhagan**, Ravikumar, 2009, Optimization of Electrical Discharge Machining Process parameters Using Genetic Algorithm. National Conference On Emerging Trends In Mechanical Engineering(ETME -09), held at Department of Mechanical Engineering, Shri Angalamman College Of Engineering And Technology, Tiruchirappalli-621105, 16th April,
- **Mathiazhagan. N**, Senthilkumar, T, Malarvizhi, S & Balasubramanian, V, 2014, ‘Effect of Friction Welding Process Parameters On Tensile Properties And Microstructure Characteristics Of Medium Carbon Steel Joints’, Resent Advances In Welding And Surface Engineering(RAWSE14) held at Annamalai University, Annamalai Nagar, March 26th &27th.
- Pradeep V, **Mathiazhagan. N**, & Ayyasamy R, 2016, ‘Effect Of Highbred composite (Sic,Tic&Y3O3) Reinforcement on AL7075 Alloy Powder Metallurgy, “National Conference On Processing and Characterization Advanced Engineering Materials NCPAEM 2016”held at SSN COLLEGE OF ENGINEERING , KALAVAKKAM,CHENNAI,TAMILNADU , MAY 6th.

- Pandiyarajan.B, **Mathiazhagan. N**, & Ayyasamy R, 2016, 'Development And Characterization Of Hybrid Composites (Tic-Sic-C) Reinforcement And Al Using Powder Metallurgy, "National Conference On Processing and Characterization Advanced Engineering Materials NCPAEM 2016" held at SSN College Of Engineering , Kalavakkam, Chennai, Tamilnadu May6th

PAPERS PRESENTED IN INTERNATIONAL CONFERENCE: 04

- **Mathiazhagan.N**, Senthilkumar, T, Malarvizhi, S & Balasubramanian, V 2014, 'Effect Of Friction Welding Process Parameters on Tensile Properties and Microstructure Characteristics Of AISI 304 Stainless Steel Joints', Proceedings Of Advancements And Futuristic Trends in Mechanical Engineering AFTME -2014 held at Anna university BIT, Tiruchirappalli (India), 21st -22nd April,
- **Mathiazhagan. N**, Senthilkumar, T, Malarvizhi, S & Balasubramanian, V, 2015, Effect Of Mechanical Properties And Microstructure On Medium Carbon Steel Using Friction Welding" , International Conference Organized By Department Of Mechanical Engineering Bit Campus Anna University,Trichy.(20&21 Mar 2015)
- **Mathiazhagan.N**, Senthilkumar T 2017 " EXPERIMENTAL INVESTIVACATION AND PREDICATE GTAW PROCESS PARAMETER ON AL 6063" Proceedings of TEQIPO IICSIR Sponsored International Conference On Energy And Environmental System , held at Anna university BIT, Tiruchirappalli (India), 10th -12th March,
- VIVEKANANDHAM.S, **Mathiazhagan.N** 2017 " Evaluate the properties of specimen made using gamma irradiation in (UHMWPE)" Proceedings of TEQIPO IICSIR Sponsored International Conference On Energy And Environmental System , held at Anna university BIT, Tiruchirappalli (India), 10th -12th March

PARTICIPATE IN WORKSHOPS.

- **One Day Workshop On Automotive Materials** Program organized by faculty of engineering and technology at Annamalai University, Annamalai Nagar, Chidambaram (7 April 2007)
- **Recent Trends In Welding processes** organized by Department of Mechanical engineering at Jayaram College of Engineering and Technology, Trichirappalli (3 April 2009)
- **One Day Workshop On Introduction To NBA-NEW Norms and Forms** organized By Association of Self -Financing Professional Engineering Colleges (Hotel Sangam, Trichirappalli (1 Oct 2009)
- **One Day Event On 3D Modeling And Design Validation Using Solid Works , organized by Anna University Trichirappalli (06th March 2010)**

- **One Day Workshop on Design of Experiments and Response Surface Methodology** organized by Department of Mechanical engineering at MAM College of Engineering, Trichy (25 September 2010)
- **One Day Workshop On Recent Trends In Metal Joining(Tamil)**, Department of Mechanical in Anna University of Technology, Tiruchirappalli (29 Oct 2010)
- **National Workshop On Welding Of Steels(WEST'12)** organized By Centre For Materials &Research Department of Manufacturing Engineering &Indian Welding Society at Annamalai University, Annamalai Nagar, Chidambaram (12&13 October 2012)
- **One Day Workshop On “NPTEL Awareness Workshop”** organized By Department of Electronics and Communication Engineering at Kongunadu College of Engineering and Technology,Thottiam, Trichirappalli (19 October 2012)
- **One Day Workshop On Friction Stir Welding (FSW-12)** organized by Centre For Materials Joining &Research Department of Manufacturing Engineering &Indian Welding Society at Annamalai University, Annamalai Nagar, Chidambaram (21&22 December 2012)
- **Short Term Course On Technical Writing For Research Scholars In Engineering And The Sciences** At Department Of Chemical Engineering & Department Of Humanities ,NIT Trichirappalli.(25-26 May 2013)
- **One Day Programme On “Research Writing “**organized by Research and Development Team of MKCE.(17 August 2013)
- **Conference On ADVANCES IN GAS SHIELDED WELDING TECHNOLOGIES** organized By IWS at Trichirappalli (21-22 Dec 2013)
- **One Day Workshop On High Temperature Properties Of Materials(HTPM)** organized by Centre for Materials &Research Department of Manufacturing Engineering & Indian Institute of Metals Human Resource Development Centre at Annamalai University, Annamalai Nagar, Chidambaram (1 February 2014)
- **One day Workshop On Friction Stir Welding of Steels(FSWS)** organized by Centre for Materials &Research Department of Manufacturing Engineering &Indian Welding Society at Annamalai University, Annamalai Nagar, Chidambaram (5th March 2014)
- **Short Term Course On Characterization Data Analysis** At Department Of Material Science And Engineering, Care Group Of Institutions (19 May To 21 May 2014)
- **One Day Workshop on Laser Assisted Materials Processing (Lamp'2k14)** organized by Department of Manufacturing Engineering &Indian Welding Society At Annamalai University, Annamalai Nagar, Chidambaram (27 December2014)

- **One Day Workshop On Advances In Arc Welding (WAAW 2K15)** organized by Centre For Materials & Research Department of Manufacturing Engineering & Indian Welding Society At Annamalai University, Annamalai Nagar, Chidambaram (6 April 2015)
- **One Day Workshop On Welding Assisted Surfacing On Materials (Wasum'2k15)** organized by Department of Manufacturing Engineering & Indian Welding Society at Annamalai University, Annamalai Nagar, Chidambaram (31 January 2015).
- **Faculty Development Programme On Research Avenues In Welding Technology** organized by Department of Automobile and Mechanical Engineering Bit Campus Anna University, Trichy (01-08-2013 To 08-08-2013)
- **“KEYSIGHT EDUCATION SYMPOSIUM-2018”** organized by Keysight Technologies & Elmack Engg Services Hotel Sangam Trichy (20th April 2018)

Personal Details

NATIONALITY	:	INDIAN
FATHER'S NAME	:	NALLUSAMY C
DATE OF BIRTH	:	30 TH MAY, 1967
MARITAL STATUS	:	MARRIED
LANGUAGES KNOWN	:	ENGLISH, TAMIL

References

1. **Dr. R.Jayavel.** (Mobile: 9444309710), Eminent Professor in Crystal Growth Centre, Anna University.
2. **Dr. T.Senthilkumar.** (Mobile: 9443267846), Professor & Dean, University College of Engineering BIT Campus, Anna University, Tiruchirappalli

Declaration

I hereby declare that all statements made in this resume are true, complete and correct to the best of my knowledge and belief and in the event of any information being found false or incorrect or any ineligibility being detected before or after the work, my candidature is liable to be cancelled and legal action may be initiated against me.

Place: Thathanur
Date: 25.03.2025

Yours Sincerely,

(MATHIAZHAGAN.N)