

# PROFILE

## 1. Personal details

Name	: Dr. R.Arokiadass
Designation	: Professor & Principal
Qualification	: B.E., M.E., Ph.D
Discipline	: Mechanical Engineering
Specialization	: Production Engineering
Date of Birth	: 23-02-1973

## 2. Address for Communication

Present Address	: No.3, Kaveri Square, TPTC Nagar, Villupuram, Pincode: 605 401. Tamilnadu, India.
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## 3. Academic Details

Project / Research Guidance		
Discipline	Guided/Awarded	undergoing
UG	26	
Ph.D		2

Conference /Seminar / Workshop				
	Conference		Seminar	Workshop
	National	International		
Attended	10	2	9	4
Conducted	5	6	16	12

#### 4. Experience

- Working as **Professor and Principal** at St.Anne's College of Engineering and Technology, Panruti from 13.11.2013 to till date.
- Worked as **Professor and Head** in the Department of Mechanical Engineering in St.Anne's College of Engineering and Technology, Panruti from 01.07.2013 and 12.11.2013.
- Worked as **Professor and Vice Principal** in Vedhantha Institute of Technology, Padur, Ulundurpet T.K from 01.02.2013 to 28.06.2013.
- Worked as **Assistant Professor and Head** in the Department of Mechanical Engineering in Dr.S.J.S. Paul Memorial College of Engineering and Technology, Villianur, Puducherry from 01.06.2011 to 30.01.2013.
- Worked as **Assistant Professor** in Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry from 18.08.2008 to 12.03.2011.
- Worked as a **senior Lecturer** in Manakula Vinayagar Institute of Technology, Madagadipet, Puducherry from 09.06.2008 to 17.08.2008.
- Worked as a **Lecturer** in Hamelmalo Agricultural College, Keren, Eriteria, from 05-04-2006 to 01-03-2008.
- Worked as a **Lecturer** in V.R.S. College of Engineering and Technology, Arasur, Tamilnadu, India, from 16-06-2004 to 31-03-2006.
- Worked as a **Senior Lecturer cum Workshop Superintendent** at Annai Velankanni Polytechnic College, Panruti from 01-06-1995 to 15-06-2004.

#### 5. Publications

Journals		Conference	
National	International	National	International
-	21	10	2

##### *List of Publications – International*

1. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Effect of process parameters on surface roughness in end milling of Al/SiCp MMC, *International Journal of Engineering Science and Technology*, (2011) vol.3, pp.276-284.

2. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Prediction of Flank Wear in End Milling of Particulate Metal Matrix Composite - RSM approach, *International Journal of Applied Engineering Research*, (2011) Vol. 6, No. 5, pp. 559–569.
3. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Predictive modeling of surface roughness in end milling of Al/SiCp metal matrix composite, *Archives of Applied Science Research*, (2011) Vol.3 (2), pp. 228-236.
4. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Surface roughness prediction model in end milling of Al/SiCp MMC by carbide tools, *Multicraft International Journal of Engineering, Science and Technology*, (2011) Vol. 3, No. 6, 2011, pp. 78-87.
5. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Tool flank wear model and parametric optimization in end milling of metal matrix composite using carbide tool: Response surface methodology approach, *International Journal of Industrial Engineering Computations*, (2012) Vol. 3, pp. 511-518.
6. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Prediction and optimization of end milling process parameters of cast Aluminium based MMC , *Transaction of non ferrous metals society of china*, (2012) Vol. 22, pp. 1568–1574.
7. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Study on tool wear and surface roughness in end milling of particulate aluminum metal matrix composite: Application of response surface methodology, *Journal of Computational and Applied Research in Mechanical Engineering*, (2012) Vol. 2, No. 1, 2012, pp. 1-12.
8. **R.AROKIADASS\***, K. PALANIRADJA, N. ALAGUMOORTHY, Bi-Performance Optimization of End Milling Characteristics Of Al/SiCp Composites Using NSGA-II, *International Journal of Applied Science and Engineering*, (2013) Vol. 3, No. 11, pp. 251-266.
9. **R.AROKIADASS\***, Parametric Optimization of End Milling of Al/SiCp Composites Using Nsga-II, *International Journal of Advanced Materials Research*, (2015), Vol. 1, No. 3, pp. 86-94.
10. **R.AROKIADASS\***, D.OMMURUGADHASAN, K.SARAVANAN, Surface Roughness Model and Parametric Optimization in End Milling using Carbide Tools:Response Surface Methodology and Taguchi Approach, *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, (2015), Vol.3, No.5, pp. 953-957.
11. S. ANITA, DR. P. ARUNA PRIYA, **DR. R. AROKIADASS**, Modeling and analysis on GABA concentration level for Diagnosis of Parkinson’s disease, *Middle-East Journal of Scientific Research*, (2016), Vol. 24, No. 4, pp. 1033-1037.
12. D.OMMURUGADHASAN, DR.K. PALANIRADJA, **R. AROKIADASS**, prediction and optimization of friction stir welding Parameters of al6061/tic metal matrix composites,

*International Journal of Advances in Mechanical and Civil Engineering*, (2017), Vol. 4, No.1, pp. 94-99.

13. **R. AROKIADASS\***, Optimization in Machining of Al/SiCp Composites by a Uncoated Solid Carbide Tool using Response Surface Methodology (RSM), *International Journal of Control Theory and Applications*, (2017), Vol. 10, pp. 437-445.
14. D.OMMURUGADHASAN, DR.K.PALANIRADJA, **R.AROKIADASS**, wear rate modelling and analysis of friction stir Welding of Al6061 /sic composite, *International Journal of Mechanical And Production Engineering*, (2017), Vol. 5, No.1, pp. 15-18.
15. **R.AROKIADASS\***, K.SARAVANAN, D.OMMURUGADHASAN, Structural Analysis of Air Turbine Rotor Blade Using N 155, Inconel 625 and Titanium Alloy Ti-4Al-4V by F.E.M, *Advances in natural and applied sciences*, ( 2017), Vol. 11(4), pp. 114-119.
16. D.OMMURUGADHASAN, DR.K. PALANIRADJA, **R. AROKIADASS**, Prediction of wear rate and wear resistance model of friction stir welded Al6061/SiCp Metal Matrix Composite – RSM approach, *Advances in natural and applied sciences*, (2017), Vol. 11(4), pp. 181-189.
17. **R.AROKIADASS\***, D. KAVIYARASAN, N. KUMARAN, Modelling and Analysis of Tool life on CNC Turning of Auminiumalloy 6063 using Tungsten Carbide Tools : Application of Taguchi Technique, *International Journal of modern trends in science and technology*, (2021), Vol. 7(02), 118-122.
18. **R. AROKIADASS\***, B. BALRAJ, P. PRAKASH, Study the influence of cutting parameters on Metal Removal Rate in Turning Process using Tungsten Carbide Tool, *International Journal of Research and Analytical Reviews*, (2021), Vol. 8(1), 526-530.
19. S. ANITA, **R. AROKIADASS**, Mathematical model for early stage identification of Parkinson's disease using neurotransmitter: GABA, (2021), *International Journal of Information Technology*. <https://doi.org/10.1007/s41870-021-00705-y>
20. R. AROKIADASS, K. KALAIARASI, C.SENTHILKMAR, M.BALAMURUGAN, Investigation on MRR and OC analysis in micro EDM of Titanium alloy using Sawtooth waveform, *International journal of Electrochemical Science*, (2022), Vol. 17, doi: 10.20964.
21. K. SHANMUGA ELANGO, C. SENTHILKUMAR, **R. AROKIADASS**, Parametric study on electrical discharge coating of 7075 aluminium With WS<sub>2</sub>/Cu electrode, *International Journal on Interactive Design and Manufacturing (IJIDeM)* (2023)-[doi.org/10.1007/s12008-023-01339-z](https://doi.org/10.1007/s12008-023-01339-z)

### *List of Conferences - National*

1. **R.AROKIADASS\***, D.OMMURUGADHASAN, K.SARAVANAN, Surface Roughness Model and Parametric Optimization in End Milling using Carbide Tools:Response Surface Methodology and Taguchi Approach, *International Journal of Engineering Research & Technology (IJERT)NCEASE-2015 Conference Proceedings*, pp94-97. (ISSN: 2278-0181).
2. A.ANNE EVANGLIN , A.ANISHA CHRISTY, **DR.R.AROKIADASSS** , K.Saravanan, Study the Influence of Machining Parameters in Dry Turning, *NCRDSET-2016, Conference Proceedings*, pp. 394-396. (ISBN: 978-93-5254-811-8).
3. S. ANITA , DR. P. ARUNA PRIYA, **DR. R. AROKIADASS**, Modeling and analysis on GABA concentration level for Diagnosis of Parkinson's disease, *NCRDSET-2016, Conference Proceedings*, pp. 146-152. (ISBN: 978-93-5254-811-8).
4. D.OMMURUGADHASAN, DR.K.PALANIRADJA, **R.AROKIADASS**, Modelling and Analysis of FSW Welded Region Wear of AL6061 /TIC Composite, *NCRDSET-2017, Conference Proceedings*, Vol. 2, pp. 195-197. (ISBN: 978-93-5254-811-8).
5. K.SARAVANAN, **R.AROKIADASS**, D.OMMURUGADHASAN, Modelling and Analysis of FSW Welded Region Wear of AL6061 /TIC Composite, *NCRDSET-2017, Conference Proceedings*, Vol. 2, pp. 199-201. (ISBN: 978-93-5254-811-8).
6. K.SARAVANAN, **R.AROKIADASS**, D.OMMURUGADHASAN, Structural Analysis of Air Turbine Rotor Blade, *NCRDSET-2017, Conference Proceedings*, Vol. 2, pp. 208-210. (ISBN: 978-93-5254-811-8).
7. **R.AROKIADASS'** U.NAVEENKUMAR, D.OMMURUGADHASAN, Design of maximum utilization of substrate in catalytic convertor, *NCRDSET-2018, Conference Proceedings*, Vol. 1, pp. 76-80. (ISBN: 978-93-5254-811-8).
8. **R.AROKIADASS**, K.SARAVANAN, D.OMMURUGADHASAN, Stress and vibration analysis of air turbine rotor for titanium-alloy, *NCRDSET-2018, Conference Proceedings*, Vol. 1, pp. 96-100. (ISBN: 978-93-5254-811-8).
9. **R.AROKIADASS**, S.SHANKAR, V.SELVAKUMAR, T.SELVAMANI, S.SUNDARAMOORTHY, Study of wear behavior of Epoxy/nanoclay composites, *NCRDSET-2018, Conference Proceedings*, Vol. 1, pp. 145-151. (ISBN: 978-93-5254-811-8).
10. **R.AROKIADASS**, HABI JACOB, J. SARJAN FERNANDO, V. MATHIVANAN, R.RAJALINGAPRABU, Investigation of wear behaviour of epoxy/hnt composites, *NCRDSET-2018, Conference Proceedings*, Vol. 1, pp. 152-158. (ISBN: 978-93-5254-811-8).

### ***List of Conferences – International***

1. **R.AROKIADASS**, Prediction of surface roughness in end milling of particulate metal matrix composite, NANO T10, Conference Proceedings, pp. 16-20.
2. B. MAGAMAIRADJ, T. SENTHILVELAN, **R.AROKIADASS**, Statistical analysis and optimization of laser welding process parameters to attain maximum tensile shear strength in dissimilar materials, *ICAME 2015, Conference Proceedings*, pp. 934-938. (ISBN 978-93-85477-29-4).

### ***6. Professional body Membership***

Indian Society for Technical Education: LM 110525

### ***7. Country visited***

<b>Place and name of the country</b>	<b>Purpose of the visit</b>
Hamelmallo Agricultural College, N.E.Africa	Teaching