

St.Joseph's College of Engineering – Chennai 600119
Department of Mechanical Engineering
Faculty Information Sheet

Staff Name	:	Dr. N. E. Arun Kumar
Faculty ID	:	TME45
Designation	:	Associate Professor
Qualification	:	M.E. , Ph.D
E- Mail ID	:	arunkumarne@stjosephs.ac.in nearunkumar@gmail.com
Total Experience (Years)	:	16.4 Years
Teaching Experience (Years)	:	16.4 Years
Area of specialization	:	Computer Integrated Manufacturing
Subjects handled in UG with Subject Code	:	1. ME8492-Kinematics of Machinery 2. ME6702-Mechatronics 3. ME6010-Robotics 4. ME8694-Hydraulics and Pneumatics 5. GE6152-Engineering Graphics
Subjects handled in PG with Subject Code	:	1. MF5011-MEMS and Nanotechnology 2. MF7104-Robot Design and Programming 3. MF5101-Advances in Manufacturing Technology
Department Responsibilities Held	:	1.Time Table In-charge 2. ME Counsellor 3.NBA criteria Coordinator 4.NAAC criteria Coordinator
Journals published	:	N.E.Arun Kumar; M.Ganesh; Naren Vivekanandan. “Optimization of machining parameters in WEDM of Monel 400 using Taguchi technique”. Materials Today: Proceedings, 22, 2199–2206. DOI: https://doi.org/10.1016/j.matpr.2020.03.300 . (2020)

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N.E. Arun Kumar, N. Sathishkumar, E. Raviraj, Roderik Eugene "Influence of near dry wirecut electrical discharge machining parameters on kerf width in Monel 400" *Materials Today: Proceedings*, 2020
<https://doi.org/10.1016/j.matpr.2020.05.471> (2020)

N. E. Arunkumar, A.Suresh babu"Influence of Input Parameters in Enhancing the Machinability of Monel Alloy using Near- Dry WEDM", *Materials and Manufacturing Processes*, published by Taylor & Francis. Vol.33:1, pp.85-92.(2018).

N. E. Arun Kumar, A. Suresh Babu , D. Murali"A study on parametric optimization of wire Electrical discharge machining using response Surface methodology", *International Journal of Chemical Sciences*, published by sadgurupublications. Vol. 14, Issue 2, pp. 1051-1059 (2016).

N.E.Arun Kumar, A.Suresh Babu, S.Chandramouli "Multi-Objective Optimization Of Wire Electrical Discharge Machining Using Principal Component Analysis", *International Journal of Applied Engineering Research (IJAER)*, published by Research India Publications. Vol. 10, Issue 2, pp. 1739-1742 (2015).

N.E. Arun Kumar, A. Suresh Babu, V. Muthu Kumar"Parametric Study along with Selection of Optimal Solutions in Wire Cut Machining of Titanium (Gr2)", *Advanced Materials Research*, published by TransTech publications. Vol. 984, Issue 2014, pp. 37-41 (2014).

N.E.Arunkumar, A.Suresh babu"Modelling The Process Parameters Of Wire Electrical Discharge Machining Of Zirconium Copper Alloy Using RSM", *International Journal of Applied Engineering Research*, published by Research India Publications. Vol. 9, Issue 26, pp. 8956-8958 (2014)

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International Conference Attended	:	<p>N.E.Arun Kumar and A.Suresh Babu, “Parametric analysis and optimization of wire electrical discharge machining of Beryllium copper alloy ”, Second International Conference on Advances in Industrial Engineering Applications (ICAIEA-2014) Department of Industrial Engineering, College of Engineering Guindy Campus, Anna university Chennai, 6th to 8th Jan 2014.</p> <p>N.E.Arun Kumar and A.Suresh Babu, “Parametric study along with selection of optimal solutions in Wire cut machining of Titanium(Gr2) ”, International Conference on Recent Advances in mechanical Engineering and Interdisciplinary Developments (ICRAMID-2014) Department of Mechanical Engineering, Pongesly College of Engineering, Kanyakumari.7th to 8th March 2014.</p> <p>N.E.Arun Kumar and A.Suresh Babu, “Modelling The Process Parameters Of Wire Electrical Discharge Machining Of Zirconium Copper Alloy Using RSM ”, International Conference on modeling,optimisation and computing (ICMOC-2014) Department of Mechanical Engineering, Noorul Islam University, Kanyakumari.10th to 11th April 2014.</p> <p>N.E.Arun Kumar, S.Chandramouli and A.Suresh Babu, “Study of Air-Water Mist Dielectric Wire-cut EDM” National conference on Advances in Mechanical Engineering,Regional Centre, Anna University Tirunelveli Region, Tamil Nadu. held on 30th August 2015.</p>
National Conference Attended	:	<p>N.E.Arun Kumar ,P.Hariharan and A.S.S. Balan, “Optimization of Process parameters in Wire Electrical Discharge Machining of Beryllium Copper alloy” Presented at the National conference “Recent Trends in Manufacturing Technology” “RTMT’2009, Organized by</p>

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Department of Manufacturing Engineering, College of Engineering Guindy campus, Anna University, Chennai.

N.E.Arun Kumar, “**Optimization of Process parameters in WEDM of Beryllium Copper alloy**” Presented at the National conference “Recent Advances in Mechanical Engineering” “RAME’2009, Organized by Department of Mechanical Engineering, M.P.Nachimuthu M Jaganathan Engineering College, Erode.

Faculty Development Programme Attended/ Workshops Attended

- :
1. 4-days **Online Course on Examination Reforms** conducted during 29 April to 2 May 2020 organized by AICTE.
 2. Five Days Online Faculty Development Program On ‘**Mentoring Institutional Social Responsibility and Community Engagement**’ June 08-12, 2020.
 3. 2 Days Online Workshop on “**Fuzzy Logic and Neural Network Approaches for Engineering Solutions**” organized by Journal of Advanced Engineering Research in association with hexacube India. 29th and 30th April 2020.
 4. 2 Days Online Workshop on “**Patent Drafting and Processing with Importance of Trademark and Copyright**” organized by **Journal of Advanced Engineering Research** in association with **hexacube India**. 06th and 07th May 2020.
 5. A Short Term Training course on **Finite Element Analysis** at Thanthai Periyar Government Institute of Technology, Vellore.
 6. Two Day National Workshop on the **Advanced Optimization with Hands on Experience using MATLAB** organized by School of Mechanical and Building Sciences, VIT University, Vellore.
 7. One Day Workshop on the **Art of Teaching Engineering Graphics by Solidworks/AUTOCAD** in S K R Engineering College, Chennai.
 8. An intensive Training on **CNC Turning** at MTAB Technologies in Chennai.

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		9. One week training on the LABVIEW by NI Instruments in S K R Engineering College, Chennai.
NPTEL Courses Attended	:	Fundamentals of Surface Engineering:Mechanisms and Characterization.(12 Weeks course)
Professional Membership	:	Life member in Indian Society for Technical Education .(LM57464)
No. of UG Projects Guided	:	16
No. of PG Projects Guided	:	05
Awards or Achievements	:	Certificate of Appreciation is for High Impact Research Publication in Materials and Manufacturing Processes by Wenlock Endowment Scholarship (2016-2017)