

**Department of Mechanical Engineering,
University College of Engineering Panruti, Panikkankuppam,
Chennai – Kumbakonam Highway, Panruti, Cuddalore District ,
Tamilnadu , India, PIN:607106.**



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**Dr. K.RAJMOHAN
Assistant Professor (Selection Grade)**

➤ **Research Area:**

Machining, Optimization and Manufacturing

➤ **Educational Qualifications:**

Qualification	Department	Year(From - To)	%	Class
Ph.D.	Faculty of Mechanical Engineering	2011 - 2017	-	-
M.E. Engineering Design	Mechanical Engineering	2005 - 2007	72	First class
B.E.	Mechanical Engineering	1992-1996	61	First class

➤ **Experience:**

Name of Company / Institutions	Designation of Post	From	To	Relieved on
University College of Engineering , Panruti	Assistant Professor (Selection Grade)	02.09.2018	Till Date	-
University College of Engineering , Panruti	Assistant Professor (Senior Grade)	02.09.2014	01.09.2018	-
University College of Engineering , Panruti	Assistant Professor	02.09.2009	01.09.2014	-
SASTRA University , Thanjavur	Assistant Professor – II	01.04.2009	22.08.2009	22.8.2009
SASTRA University , Thanjavur	Lecturer	13.08.2007	31.03.2009	-
Vivekananda Polytechnic , Seplanatham , Neyveli -2	Lecturer	05.11.2001	31.07.2005	31.7.2005

➤ **Awards:**

- Awarded “ Best Senior Faculty Award” by Sri karunanandar Charitable Trust, Tiruvannamalai in the year 2020
- Awarded “Sarvepalli Dr. Radhakrishnan Award for Excellence in Teaching” by Sri karunanandar Charitable Trust, Tiruvannamalai in the year 2024

➤ **Additional / Academic Responsibilities at University College:**

1. Acting as “ **Logistics Coordinator**” at UCE , Panruti from 17.09.2012 to till date
2. Acting as “ **Class Advisor** “ for the students of Mechanical Engineering from the date of Inception (02.09.2009) to till date
3. Acting as a **Member** of “ **Internal Quality Assurance Cell**” of University College of Engineering, Panruti, from 05.12.2018 to till date
4. Acted as **HOD i/c** from 25.04.2019 to 26.07.2022
5. Acting as “ **Educational Loan Coordinator**” from 21.10.2023 to till date

➤ **Professional Activities:**

- Have been handling classes for all years of Mechanical Engineering Students , First year and attending all COE related duties from the date of inception
- Acted as Jury and Keynote Speaker in “ International Conference on Progressive Research in Applied Sciences, Engineering and Technology (ICPRASET2K18), held on 23.03.2018 at Surya Group of Institutions , Vikiravandi , Tamilnadu – 605602
- Acted as Jury for the student’s level Internal Technical Symposia – 2014 “ Mechzion’14” held on 25.01.2014 in the department of Mechanical Engineering , IFET College of Engineering,Villupuram
- Served as Co-ordinator for the Centre for Faculty Development, Anna University , Chennai Sponsored One week FDTP on “ME 2353 Finite Element Analysis” , held at Department of Mechanical Engineering , University College of Engineering Panruti , Panruti , from 08.12.2014 to 14.12.2014
- Acted as Jury and Keynote Speaker in the national level Technical Symposium entitled “Mechsympo2K18” , held on 15.02.2018 at M.R.K. Institute of Technology , Kattumannarkoil
- Served as Co-ordinator for the Centre for Faculty Development, Anna University , Chennai Sponsored One week FDTP on “ME 2251 Heat and

Mass Transfer” , held at Department of Mechanical Engineering , University College of Engineering Panruti , Panruti , from 16.12.2013 to 22.12.2013

- Served as Faculty coordinator for the National Level Technical Symposium “ Yantrika 2k19” , organized by the Department of Mechanical Engineering , University college of engineering Panruti , on 13.03.2019
- Appointed as Member of the Inspection Committee for affiliation of institutions for the academic year 2018-2019, by AU – CAI on 12.03.2018
- Acted as a Resource person and delivered lecture in the topic “ Class Room management” on 30.11.2018 in the FDTP on EE8401-Electrical Machines – II , organized by the Department of Electrical and Electronics Engineering, UCE Panruti
- Served as Co-ordinator for the National level students technical symposium(YANTRIKA-MMXIII) , organized by Department of Mechanical Engineering, UCE Panruti, held on 11th October 2013

➤ **Membership of Scientific and Professional Societies:**

Permanent “ **Associate Member**” in Institution of Engineers India, Kolkata

➤ **PhD Research Projects (Completed):** 01 Research Scholar completed his PhD under my research supervision

➤ **PhD Research Projects (Ongoing):** 02 Research Scholars Pursuing PhD Part-time Under my Supervision

➤ **International Conferences Participated:**

- Participated and Orally Presented a paper entitled “ A study on the obstacles of Solar Power Development in India” in the “International Conference on Engineering Materials and Renewable Energy” , held at Department of

Chemistry , University College of Engineering Villupuram , Villupuram , from 04.01.2018 to 05.01.2018

- Participated and presented a paper entitled “Evaluation of Kerf width , Material Removal rate and Surface roughness of 2205 Duplex stainless steel by Grey relational analysis in Micro wire – cut EDM” in international conference on “Intelligence in computation communication and Robotics (ICICCR 2019)” , organized by Bharath Institute of Higher Education and Research , Chennai,Tamilnadu , india on 23.02.2019
- Presented one paper entitled “ WEDM Process using Taguchi Method” in the IEEE sponsored 3rd international conference on Engineering & Technology 2018 , organized by the Department of CSE & IT , Rathinam Technical Campus, Coimbatore during 30th & 31st August 2018
- Presented one paper entitled “Evaluation of Kerf width, Material Removal Rate and Surface Roughness of 2205 Duplex Stainless Steel by Grey Relational Analysis in Micro wire-cut EDM Process” in the Online International conference on "materials, manufacturing, robotics, Automation, artificial Intelligence and Networking for Industry 5.0"(ICMRAN-2021),organized by Excel Engineering College, Namakkal , held during 28th & 29th January 2021
- Presented one paper entitled “Investigation of Wire-Cut EDM Machine Characteristics of 2304 Duplex Stainless Steel” in the international conference on “Emerging Trends in Management Education, Engineering Science and Technology” , organized by Indra Ganesan College of Engineering, Trichy-620012, held between 22nd & 24th February 2024

➤ **National Conferences Participated:**

- Presented a paper in the national conference on “ Advancements in Mechanical , Environmental , Safety and Health Engineering (AMESHE 2015) , held on 09.05.2015 at Knowledge Institute of Technology , Salem
- Presented one paper entitled “Smart Street Light and Fault Location Monitoring through the cloud over IOT” in the National Conference on “ Advancements in Engineering, Science and Technology(NCAEST'24)” , organized by St.Anne's College of Engineering & Technology, Anguchettipalayam, Panruti , on 2nd May 2024

➤ **Publications :**

a. Books:

- Co – Authored (First Author) a Book entitled “ Robotics” , published through A.R.Publications , No.11 , Veerabathra Nagar , 8th Street, Medavakkam , Chennai – 600100 , Tamilnadu , with ISBN : 978-93-84634-35-3
- Co-Authored (First Author) a Book entitled “ Manufacturing Technology – 1” , Published through A.R.Publications , No.11 , Veerabathra Nagar , 8th Street, Medavakkam , Chennai – 600100 , Tamilnadu , with ISBN: 978-93-87255-44-9
- Co – Authored (Second Author) a Book entitled “ Testing of Materials” , published through A.R.S. Publications , No.11 , Veerabathra Nagar , 8th Street, Medavakkam , Chennai – 600100 , Tamilnadu , with ISBN:978-93-84608-23-1

b. Patents:

Co-authored (Second Author) & Published a patent entitled “**A combined Hydraulic, Pneumatic and Electric Motor interchangeable Robot arm for Crane Applications**” in the year 2022

c. International Journals:

1. Senthilkumar A, Rajmohan K , ‘ A review on the effects of process parameters of Wire electrical discharge machining on the surface integrity of various materials’ , International Journal of Applied Engineering Research,2015, Vol. 10 No.50.
2. Rajmohan K, Senthilkumar A, ‘ Experimental investigation and prediction of optimum process parameters of micro wire – cut- EDM of 2205 DSS’, International Journal of Advanced Manufacturing Technology, 2016, Vol. 83, Nos. 5 – 8
3. Senthilkumar A, K. Rajmohan , ‘Appraisal of Material Removal Rate and Kerf width of 2205 Duplex Stainless Steel in Micro wire – cut EDM process through Response Surface Methodology’ , Journal of the Balkan Tribological Association ,2017,Vol.23,Book1,pp.56-66

4. Muthukumaran Sivalingam , Rajmohan Kesavalu , ‘ Review on the influence of Wire EDM Process Parameters – A Wide Range of Materials’ , Comptes Rendus De l’Academie Bulgare Des Sciences , 2018, Vol.71 , No.8,pp.1102-1107
5. K.Rajmohan , M.Vivekanandhan , ‘A Review on Mechanical Properties and Tribological Characteristics of Stir Cast Aluminium Metal Matrix Composites’, International Journal of Applied Engineering Research,2019, Vol. 14 No.2
6. Rajmohan Kesavalu , Senthil Ramamoorthy, ‘ Experimental Studies and Finite Element Modeling on Incrementally Formed AZ61A Magnesium Alloy’,Journal of New Materials for Electrochemical Systems , 2020, Vol.23,No.1,pp.25-30
7. M Vivekanandhan ,K Rajmohan & C Senthilkumar, ‘Modeling and prediction of electrical discharge machining performance parameters for AA 8081 hybrid composite using artificial neural network’ , Surface Topography: Metrology and Properties ,2022, <https://doi.org/10.1088/2051-672X/ac4a44>
8. K. Rajmohan , M. Vivekanandhan & C. Senthilkumar, ‘Modelling and parametric optimization of EDM of Al 8081/SiCp composite through DEAR approach’ ,International Journal of Interactive Design and Manufacturing, 2024, <https://doi.org/10.1007/s12008-023-01688-9>
9. A.Senthilkumar,S.Muthukumaran & K. Rajmohan, ‘ Improving Mechanical characteristics of Polyamide through varying Weight Percentages of Carbon Fiber Composites for Fused Deposition Modeling’ , Journal of the Institution of Engineers (India): Series D,2024, <https://doi.org/10.1007/s40033-024-00733-5>
10. Rajmohan Kesavalu & Mahendran Subramanian, ‘ Comprehensive analysis and optimization of Wire-Cut EDM process parameters for improved surface integrity and material removal rate in duplex stainless steel’, Materia (Rio De Janeiro),Vol.29 N.4,2024, DOI: <https://doi.org/10.1590/1517-7076-RMAT-2024-0692>
- 11.Kamalakkannan Radhakrishnan & Rajmohan Kesavalu,‘Investigation of Wire-Cut EDM parameters for machining 2304 duplex stainless steel: effects on material removal rate, surface roughness, and tool

wear',Materia(RioDeJaneiro),2025,Vol.30,DOI:
<https://doi.org/10.1590/1517-7076-RMAT-2024-0797>
