

CURRICULUM VITAE

Dr.S.MUTHUKUMARAN
Assistant Professor
Department of Mechanical Engineering
University College of Engineering Panruti
Panruti – 607106
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► Research Area:

Welding, Optimization and Manufacturing

► Educational Qualifications:

- Doctor of Philosophy in Mechanical Engineering, Anna University Chennai - 2018.
- Master of Engineering - Production, Annamalai University - 2002.
- Bachelor of Engineering - Mechanical Engineering , Madras University - 1997.

► Experience:

Name of Company / Institutions	Designation of Post	From	To	Relieved on	Scale of Pay	Experience in Year
University College of Engineering Panruti	Assistant Professor	20.08.2009	Till Date	-	15600 – 39100 AGP : Rs.6000	09
Anna University of Technology	Lecturer	15.09.2008	19.08.2009	-	14000	11 Months



Tiruchirappalli						
V.R.S.College of Engineering and Technology	Sr.Lecturer	01.04.2007	11.09.2008	11.09.2008	10000 – 325 – 15200	1 Year 5 Months
V.R.S.College of Engineering and Technology	Lecturer	24.07.2006	31.03.2007	-	8000 – 275 - 13500	8 Months
Ranipettai Institute of Technology	Lecturer	24.08.2004	28.02.2006	28.02.2006	Rs.8000	1 Year 6Months

► Additional / Academic Responsibilities at University:

1. Acting as "Head of the Department in-charge" of Mechanical Engineering from 30.10.2015 to till date.
2. Resuming office as "Coordinator(Students Affairs)" at UCE-Panruti from 17.09.2012 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 for the National level Technical Symposium – 2018 " Explore'18 " held on 28.03.2018 in the department of Mechanical Engineering and Civil Engineering, A.K.T Memorial College of Engineering& Technology,Kallakurichi.



- Served as Co-ordinator for the Centre for Faculty Development, Anna University , Chennai Sponsored One week FDTP on “ME 6503 Design of Machine Elements” , held at Department of Mechanical Engineering , University College of Engineering Panruti , Panruti , from 17.05.2017 to 23.05.2017.
- Acted as resource person for the Anna University sponsored faculty development and training program on GE6253 Engineering Mechanics held on 18.12.2014 in the department of Mechanical Engineering, IFET College of Engineering, Villupuram.
- Acted as Judge for the National level Technical Symposium – 2013 “MECH-O-DROIDZ 2K13” held on 27.09.2013 in the department of Mechanical Engineering, St.Annes College of Engineering and Technology, Panruti.
- 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 .

► Completed B.E/M.E Projects:

- a. Number of ME Projects Completed : 01 No
- b. Number of BE Project Completed : 30 Nos



► PhD Research Projects (Ongoing) : ONE

► List of Seminar / Short Term Course /FDP/ Workshop attended: (Within India)

- Attended AICTE Sponsored Two Weeks FDTP on "Nanotechnology for Energy and Agriculture sectors " held at Department of Mechanical Engineering , IFET College of Engineering ,Villupuram, from 13.11.2017 to 26.12.2017 (14 Days)
- Attended Centre for Faculty Development, Anna University , Chennai Sponsored one week FDTP on "ME 6404 Thermal Engineering " , held at Department of Mechanical Engineering , University College of Engineering Villupuram, Villupuram , from 13.12.2016 to 19.12.2016 (07 Days)
- Attended AICTE Sponsored One Week Short term course under Quality Improvement Programme on "Advances in Materials Processing Techniques" held at Department of Mechanical Engineering , Pondicherry Engineering College,Puducherry, from 05.12.2017 to 09.12.2017 (05 Days)
- Attended Workshop on " Part Programming and Operations on CNC Lathe Trainer and CNC Mill Trainer" held at Anna University, Chennai , conducted by Sine Wave Engineering Pvt Ltd , from 01.02.2016 to 05.02.2016 (05 Days)
- Attended One day workshop on "International Workshop on Preparation of Technical Articles & Research Proposals" ,held at University College of Engineering Villupuram, Villupuram , on 04.01.2016 (01 Day)
- Attended TEQIP II Sponsored Two Weeks FDTP entitled " Thermal Engineering Applications for Sustainable Improvement (TEASI'15)" , held at Department of Mechanical Engineering , Anna University - BIT Campus , Tiruchirappalli , from 15.06.2015 to 28.06.2015 (14 Days).



- Attended One day workshop on “Recent Advances in Welding Technology” ,held at Kingston Engineering College, Vellore , on 20.02.2015 (01 Day)

- Attended Two days workshop on “Optimization Techniques for Engineering Applications ” , organized by Department of Mechanical Engineering, Adhiparasakthi Engineering College, Melmaruvathur , on 13.02.2015 & 14.02.2015 (02 Days)

- Attended Centre for Faculty Development, Anna University , Chennai Sponsored one week FDTP on “ME 2305 Applied Hydraulics and Pneumatics ” , held at Department of Mechanical Engineering , University College of Engineering Ariyalur, Ariyalur, from 23.06.2014 to 29.06.2014 (07 Days)

- Attended One day workshop on “High Temperature Properties of Materials(HTPM)” , Organized by Center for Materials Joining & Research(CEMAJOR) , Department of Mechanical Engineering, Annamalai University, Chidambaram, on 01.02.2014 (01 Day)

- Attended TEQIP II Sponsored one Week FDP entitled “ Research Avenues in Welding Technology (RAWT’13)” , held at Department of Mechanical Engineering , Anna University – BIT Campus , Tiruchirappalli , from 01.08.2013 to 08.08.2013 (08 Days).

- Attended AICTE Sponsored Two Weeks Staff Development Programme on “Developing pedagogical skills for teachers through active learning techniques” held at Department of Management Studies , M.A.M. College of Engineering, Tiruchirappalli , from 10.06.2013 to 22.06.2013 (13 Days)

- Participated in the Short – term course on “Soft Skills” conducted by national Institute of Technical Teachers Training & Research from 18.03.2013 to 22.03.2013 (05 Days)

- Participated in the “Symposium for in-house research scholars (SYRES) ofed by Center for Materials Joining & Research(CEMAJOR) , Department of Mechanical Engineering,

Annamalai University, Chidambaram, during 11.03.2011 to 12.03.2011 (02 Days)

- Participated in a Two week ISTE WORKSHOP on “Computational Fluid Dynamics” Conducted by Indian Institute of Technology Bombay from 12.06.2012 to 22.06.2012 (11 Days) at the Remote centre : National Institute of Technology Tiruchirappalli.

➤ **International Conferences Participated:**

- Participated and Orally Presented a paper entitled “Magnetic Pulse Welding of Dissimilar Materials for Automotive Applications: Testing and Evaluation” in the “International Conference on Advances in Design & Manufacturing 2014 (ICAD&M’14)”, held at Department of Mechanical & Production Engineering , National Institute of Technology Tiruchirappalli, from 05.12.2014 to 07.12.2014
- Participated and Orally Presented a paper entitled “Numerical Simulation of Friction Stir Welding of Al-7075” in the “International Conference on Emerging Trends in Mechanical & Industrial Engineering (ICETMIE-2017)”, held at Department of Mechanical Engineering , The NorthCap University, Gurugram from 13.10.2017 to 14.10.2017

➤ **Publications :**

a. **Books:**



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- Co – Authored a Book entitled “ Power Plant Engineering” , published through Sri Krishna Hitech Publishing Company Pvt.Ltd , Plot No.14 , Lakshmi Kanthammal 1st Street, Rajiv Nagar, Vanagaram , Chennai – 600 077 , Tamilnadu , with ISBN : 978-93-86590-29-9.
- Co – Authored a Book entitled “ Material Science” , published through Vishnu Prints Media A Group of Sri Krishna Hitech Publishing Company Pvt.Ltd , Chennai – 600 077 , Tamilnadu , with ISBN : 978-93- 85374-84-5.

b. International Journals:

- **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 , Accepted for publication in August 2018 Issue.
- **Muthukumaran**, S, Senthil Kumar, A, Arungalai Vendhan, S&Kudiyarasan, S 2017, ‘Experimental and numerical simulation of magnetic pulses for joining of dissimilar materials with dissimilar geometry with electromagnetic welding process’, International Journal of Applied Electromagnetics and Mechanics, vol.53 no.2, pp.237–249, DOI: 10.3233/JAE -160029, ISSN 1383-5416, (Anna University recommended Journal: Annexure I, Impact Factor: 0.724).
- N.B.Karthik Babu , **S.Muthukumaran**, S.Arokiasamy & T.Ramesh 2018, Thermal and Mechanical Behavior of the Coir Powder Filled Polyester Micro - Composites, Journal of Natural Fibers, pp 1-11, DOI 10.1080/15440478.2018.1555503.
- N.B.Karthik Babu , **S.Muthukumaran**, T.Ramesh & S.Arokiasamy 2019, Effect of Agro-waste Microcoir Pith and Dynamic Mechanical Behavior of Polyester Composites, Journal of Natural Fibers, pp1-13, DOI : 10.1080/15440478.2019.1636745.
- K.Manikandan, P.Ranjith kumar , **S.Muthukumaran**, B.Suresh kumar, vol.23, No.1, January, 2020, pp.31-35, Effect of WEDM Process Parameters on Surface Roughness and Waviness of Inconel 603XL, Journal of New Materials for Electrochemical Systems , DOI 10.14447/jnmes.v23i1.a06.





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