



## CURRICULUM VITAE

Dr. S. AJAYA KUMAR

BE ME PhD

MECHANICAL ENGINEERING DEPARTMENT

- Ph.D. from Jawaharlal Nehru Technological University Hyderabad, India in June 2020.

Thesis: Effect of work material on the cutting speed and analysis of the roundness error in holes produced by Wire Cut EDM

- M. E. (Mechanical Spl in Production Engineering) from University College of Engineering (UCE) Osmania University Hyderabad India in June 2005.
- B.E. (Mechanical Engineering Spl in Production Engineering) from Chaitanya Bharathi Institute of Technology (CBIT) Osmania University Hyderabad India June 1995.

Work Experience	28Yrs
Industrial Experience as Quality control&Production Engineer	10 Yrs
Research Experience	3 Yrs
Teaching Experience	18 Yrs
Professional Memberships	2
No. of Papers in International Journals	15
No. of Papers in International Conferences	2
No.of Patents	1

### Employment details:

- October -1995 to June-2005 as Production Engineer (PE) & Quality Control (QC) Engineer in Surana Telecom Ltd. Cherlapally, Hyderabad India.
- June- 2005 to July-2009 as Asst.Professor, in The Vazir Sultan College of Engineering Khammam Telangana India.
- August -2009 to October- 2012 as HOD & Assoc.Professor in Mohammadiya Institute of Technology Khammam Telangana India.
- November-2012 to September-2015 as Assoc.Professor in Swarna Bharathi Institute of Science & Technology Khammam Telangana India.
- March -2016 to July -2017 as Asst. Professor in AVNIET Hyderabad Telangana India.
- July-15-2017 to February- 04-2018 as Associate Professor &HOD in GDMM College of Engineering &Technology, Nandigama,Krishna Dist A.P India.

- February-2018 to August -2018 HOD & Assoc.Professor in Sri Rama Institute Technology VM Banjir Khammam Telangana India.
- August -2018 to September -2021 as Asst. Professor in Sri Venkateswara Engineering College Suryapet Telangana India.
- Presently working as Associative Professor in Dhanekula Institute of Engineering Technology from 21-07-2022 Ganguru Vijayawada. A.P India.

#### Professional Societies / Memberships:

- Life Member, Indian Society of Mechanical Engineers LM 61080(2009)
- Life Member , Society of Mechanical Automotive Engineer LM 02042 (2017)

#### List of Patents:

- 1) Polymer Composite Microstructure and Associated Physical Characteristics”. Patent Application Number: 202241033429 Journal Number: 24/2022Date of filing:10-06-2022 Date of Published: 17-06-2022.<https://ipindiaservices.gov.in/publicsearch>.

#### List of Papers Published in International Journals:

- 1) S.Ajaya Kumar, A. Prabhu kumar, D.Ramana Reddy, “A Review on effect of process parameters on Ra of EN32 Steel in Wire Electrical Discharge Machining”, Proceedings of International Conference on Paradigms in Engineering and Technology(ICPET2016),Hyderabad, 2-3 March 2016, MCET, Hyderabad.
- 2) S.Ajayakumar,Dr A.Prabhukumar ,Dr B.BaluNaik “Optimization of cutting parameters in Wire EDM to minimize circularity and roundness error-cutting speed effect”, Anveshana’s International Journal of Research in Engineering and Applied Sciences (AIJREAS),Vol-3, Issue-04, April 2018. ISSN: 2455-6300(Online).
- 3) S.Ajaya Kumar, K. Gopi Krishna "Bent hollow channel punching using hydraulic compact press", International Journal of Engineering Science and Computing, Vol.6 Issue No. 8, 2016, ISSN 2321 3361 © 2016 IJESC,PP: 2586-2589.
- 4) S. Ajaya Kumar, Dr. A. Prabhu Kumar, Dr. B. Balu Naik, B. Ravi “A Review on the Mechanical Properties of Aluminum Based Metal Matrix Composites (MMCs)” International Journal of Engineering Science Invention (IJESI) ISSN (Online): 2319 – 6734, ISSN (Print): 2319 – 6726,Volume 6, Issue12, Dec-2017, PP: 12-15 .
- 5) S.Ajayakumar ,DrA.Prabhukumar ,Dr.B.BaluNaik “Optimization of circularity in Wire EDM process for different diameters”, International Journal of Engineering and Techniques(IJET);ISSN:2395-1303;Vol-4; Issue-1;Impact Factor:3.456;Jan-Feb 2018;PP:628-631,[www.ijetjournal.org](http://www.ijetjournal.org)
- 6) S.Ajaya Kumar , Dr A.Prabhukumar , Dr B.BaluNaik, B. Ravi “ Production and investigation on Mechanical Properties of TiC reinforced Al7075 MMC” Materials Today Proceedings 5(2018) 17924-17929;Available online at [www.sciencedirect.com](http://www.sciencedirect.com)
- 7) S.Ajayakumar ,Dr A.Prabhukumar ,Dr B.BaluNaik“Optimization of cutting speed parameter for roundness study in Wire EDM for different materials by Taguchi method”, International Journal of Mechanical and Production Engineering Research and Development(IJMPERD),ISSN(P):2249-6890;ISSN(E):2249-8001;Impact Factor(JCC

2018):7.6197 Index Copernicus Value(ICV)-(2016):60.6;NAAS Rating :3.11;Vol-8;Issue - 4;Aug-2018 , (SCOPUS Indexed Journal),www.tjprc.org

- 8) S.Ajayakumar ,Dr A.Prabhukumar ,Dr B.BaluNaik“ Experimental study on multiple radii profile cutting for roundness error in Wire EDM”, International Journal of Management and Technology(IJMTE); ISSN:2249-7455;Vol-IX;Issue-I ;Impact Factor 6.3;January-2019;PP:3198- 3203,www.ijamtes.org
- 9) S.Ajayakumar ,Dr A.Prabhukumar ,Dr B.BaluNaik“ An Experimental study on roundness error in Wire EDM for Ferro materials”, International Journal of Research(IJR), ISSN :2236-6124,Volume- VIII, Issue -I, Impact Factor:5.7;January2019,PP:1039-1047,www.ijrpublisher.com
- 10) S.Ajayakumar ,Dr A.Prabhukumar ,Dr B.BaluNaik “Optimization comparison of roundness error in wire EDM machining by variable methods”, International Journal of Mechanical Engineering and Technology(IJMET);Vol-10; Issue-01;ISSN (P):0976- 6340;ISSN(O):0976-6359;Impat Factor(2016):9.2286;Info Base Index(ABI) Factor (2015- 16):3.46 Thomson Reuters’ researcher ID:B-7384-2016 January 2019,pp:1272-1282 (SCOPUS Indexed Journal),www.iaeme.com
- 11) S.Ajayakumar ,Dr A.Prabhukumar ,Dr B.BaluNaik “Comparative analysis of surface finish and circularity by varying number of cuts in Wire EDM”, International Journal of Advancement in Engineering ,Management and Applied Science(IJAETMAS);Volume-05; Issue-03; March-2018,ISSN:2349-3224,pp:145-154,www.ijaetmas.com
- 12) Dr.T.Vijaya Babu, Dr .J.S Soni , B.Suresh Kumar S.Ajay Kumar ” Electrical Discharge Machining (EDM): A Review" International Journal of Engineering Trends and Technology (IJETT) – Volume-40 Number-6 - October 2016 ISSN: 2231-5381 pp:371-375
- 13) Dr.T.Vijaya Babu, Dr .J.S Soni, S. Ajaya Kumar "An experimental investigation of machining parameters on Electrical Discharge Machining of M-250 (Maraging) Steels" International Journal of Engineering Sciences & Research Technology, Dec-2016, ISSN: 2277-9655, PP 55-60, Impact Factor: 4.116
- 14) Dr.T.Vijaya Babu, Dr .J.S Soni, S. Ajaya Kumar “Experimental study of surface finish on AISI 316 stainless steel during electro discharge machining" International Journal of Engineering and Management Research.Vol-6, Issue-6, Nov-Dec 2016, ISSN: 2250-0758, pp 279-281, Impact Factor: 3.96
- 15) Dr.T. Vijaya Babu, S.Ajaya Kumar “ Effect Of Wire EDM Process Parameters On Surface Roughness Of AISI-4140 (Carbon Steel) Using Taguchi Method” International e- Journal For Technology And Research, Volume 1, Issue 2, Mar 2017

#### International conferences:

- 1)S.Ajayakumar ,Dr A.Prabhukumar ,Dr D.Ramana Reddy “ A Review on Effect of process parameters on Ra of EN 32 Steel in W EDM” , Proceedings of International Conference on Paradigms in Engineering and Technology,Hyderabad,2-3 March, MCET, Hyderabad.
- 2) S.Ajayakumar,Dr A.Prabhukumar ,DrB.BaluNaik “Optimization of cutting parameters in Wire EDM to minimize circularity and roundness error-cutting speed effect”, Anveshana’s International Journal of Research in Engineering and Applied Sciences (AIJREAS),Vol-3, Issue-04, April 2018. ISSN: 2455-6300(Online).

#### Faculty Development Programme attended:

- Teaching & Research Methodologies in Technical Education held on 9th&10th March 2013 organized by the Department of Mechanical Engineering Swarna Bharath Institute of Science & Technology (SBIT) Khammam TS India.
- Engineering Drawing held on 27th December 2014 organized by the Department of Mechanical Engineering Sana Engineering College Kodad TS India.
- Advances in Engine Combustion and Emission Diagnostics held from 05-10-2020 to 09-10-2020 through online mode organized by the Department of Mechanical Engineering National Institute of Technology (NIT),Tadepalligudem, Andhra Pradesh, India.
- Six Days Faculty Development Programme on Driving Industrial Excellence with Modern Mechanical Innovations from 20.11.2023 to 25.11.2023 conducted by Saveetha Engineering College Saveetha Nagar Thandalam, Chennai T.N. India.
- Five Days Faculty Development Programme on “Creative thinking, Leadership and Pedagogical Practices”. From 12.02.2024 to 16.02.2024. Organized by Department of Heat Transfer Engineering,SIMATS Engineering,SIMATS,Thandalam,Chennai 602105. Tamil Nadu India.

Workshops attended:

- Research trends in Mechanical Engineering held on 4th April 2015 organized by the Department of Mechanical Engineering Rajiv Gandhi University of Knowledge Technologies Nuzvid APIIT AP India.
- Computer Aided Manufacturing, Measurements,Automation &Robotics held on 3rd & 4th organized by the Department of Mechanical Engineering & Automobile Engineering KLR College of Engineering & Technology Paloncha Khammam(Dist) TS India.
- E-Awareness Workshop held on Jan 04, 2021 organized by NPTEL

On line Quiz attended:

- On Manufacturing Technology with score 95% conducted on 20.07.2020 organized by Department of Mechanical Engineering of Mother Teresa Institute Of Science and Technology Sathupally Khammam (Dist) TS India.
- On Mechanical Engineering conducted on 08th August 2020 organized by Department of Mechanical Engineering Mahaveer Institute of Science and Technology Hyderabad TS India.

University Test : Qualified in Faculty Eligibility Test (FET) conducted by JNTU Hyderabad in the year of 2010.

PhD Guide : Dr. A. Prabhu kumar  
Professor & Director UFR JNTUH Hyderabad.

Co-Guide : Dr. B.Balu Naik  
Professor & Principal  
JNTUHCE Sultanpur Sangareddy.

Personal details:

Name : Saggurti.Ajayakumar

Father's Name : Late Sri Ramulu  
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Spouse's Name : Mrs. Swarnalatha  
Elder Daughter's Name : Miss.Ajitha  
Younger Daughter's Name : Miss. Anvitha  
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(Dr. Ajaya Kumar Saggurti)