

Curriculum Vitae



Dr .U. ASHOK KUMAR

Assistant Professor -C

Department of Mechanical Engineering

University College of Engineering

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EDUCATION

- **Ph.D. in Mechanical Engineering, Osmania University, Hyderabad, Telangana State, INDIA**
Dissertation: “*Experimental Investigation on Micro Hole Machining by Electrical Discharge Machining Using Taguchi Approach*”, 2021
- **M.Engg. in Mechanical Engineering**, with specialization in “**Advanced Design & Manufacture**” (69 %) **Osmania University, Hyderabad, Telangana State, INDIA, 2009**
- **Jawaharlal Nehru Technological University, Hyderabad.**
B.Tech - Mechanical Engineering (58.23%) in 2006

TEACHING EXPERIENCE

- Working as **Assistant Professor (Contract)** in Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad, Telangana State, INDIA, Since from **01-08-2011** to till Date

CITATION INDEX

Source	Total Citations	h- Index	Link
Google Scholar	162	8	https://scholar.google.co.in/citations?user=KIL21CkAAAAJ
Research Gate	187	8	https://www.researchgate.net/profile/U-Ashok-Kumar/stats
Scopus	78	6	https://www.scopus.com/authid/detail.uri?authorId=57209871312
Web of Science	82	6	https://www.webofscience.com/wos/author/record/LZH-1095-2025
ResearcherID	161	8	https://www.researchid.co/ashok.u
Vidwan	167	8	https://vidwan.inflibnet.ac.in/profile/92105

PUBLICATIONS

• Books

1. **U Ashok Kumar.**, & Laxminarayana, P. (2019). *Optimization of wire-EDM process parameters on Ti-6Al-4V*. LAP Lambert Academic Publishing.

• Book Chapters

1. **U Ashok Kumar**, Dr. P. Laxminarayana, “Optimization of Process Parameters on EDM for Inconel 718” Recent Trends in Mechanical Engineering, Springer Part of the Lecture Notes in Mechanical Engineering Book Chapter series (LNME), P.No.365-371,2020

• Number of Publications: 37

International Journals	: 28
International Conferences	: 09

• Journal Publications

S. No.	Authors	Title / Paper No.	Journal / Proceedings	Indexing / Type	Year	Journal Quartile
1	Dr. G. Srinivas Sharma, Dr. G. L. Kameswari & U. Ashok Kumar	Mathematical Modeling & Heat Transfer Analysis of Lithium-ion Battery Pack for Electrical Mobility (Paper No. 2025-AC-05)	ARAI Journal of Mobility Technology, 5(1) 1446–1454	Peer-reviewed	2025	Q4
2	U. Ashok Kumar , P. Anurag, K. K. Reddy & K. L. Yashwanth	Comparative Studies on 3D-Printed Metal Electrode vs Conventional Electrode in EDM on Ti-alloy (Paper No. 2024-JL-07)	ARAI Journal of Mobility Technology, 4(4) 1363–1369	Peer-reviewed	2024	Q4
3	U. Ashok Kumar , P. Anunay, G. S. Seemanth & M. B. G. Tilak	Geometrical Characteristics of Kerf Width on Titanium Alloy by Abrasive Water Jet Machining (Paper No. 2024-JL-05)	ARAI Journal of Mobility Technology, 4(4) 1344–1350	Peer-reviewed	2024	Q4
4	U. Ashok Kumar , M. Prakash, L. Lachiram & L. Laxminarayana	Optimization of MRR & TWR of Meso Holes on EN-31 Steel using ED Drilling	European Chemical Bulletin, 12(8) 8811–8829	Scopus	2023	Q3
5	U. Ashok Kumar	Experimental Investigation and Optimization of Die Sinker EDM on Inconel-625 Alloy	IJ for Advanced Research in Science & Technology 11(12)	Peer-reviewed	2022	Q4

S. No.	Authors	Title / Paper No.	Journal / Proceedings	Indexing / Type	Year	Journal Quartile
6	S. Madhukar, G. A. Kumar, D. S. Suman, S. A. P. Quadri & U. Ashok Kumar	Microstructural Features and Corrosion Resistance of Cryogenic and HA-Burnished Titanium Alloy	Intelligent Manufacturing and Energy Sustainability (ICIMES)	Scopus	2021	Q2
7	U. Ashok Kumar , P. Laxminarayana	Design and Development of Face Shield by 3D Printing for COVID-19 Epidemics	IJ for Research in Applied Science and Engineering	Peer-reviewed	2020	Q4
8	U. Ashok Kumar , P. Laxminarayana	Machining of Micro Holes on Stainless Steel 316 by Die Sinking EDM	Solid State Technology, 63(5) 889–898	Scopus	2020	Q3
9	U. Ashok Kumar , S. M. Alam & P. Laxminarayana	Influence of Abrasive Water Jet Cutting on GFRP Composites	Materials Today: Proceedings, 27(2) 1651–1654	Scopus	2020	Q2
10	U. Ashok Kumar , G. Saidulu & P. Laxminarayana	Machining of Nimonic Alloy 75 using Wire-Cut EDM	Materials Today: Proceedings, 27(2) 1362–1368	Scopus	2020	Q2
11	U. Ashok Kumar , P. Laxminarayana	Optimization of Surface Roughness and Kerf Width by Wire EDM on Inconel 625	Materials Today: Proceedings, 27(2) 1460–1465	Scopus	2020	Q2
12	P. L. H. Pallapothu & U. Ashok Kumar	Micro Drilling of GFRP Composites	Materials Today: Proceedings, 46(19) 9252–9256	Scopus	2020	Q2
13	R. P. Naik, U. Ashok Kumar , & P. Laxminarayana	Surface Roughness, Hardness and MRR of SS 316L in EDM with Distilled Water	IJSRSET, 5	Peer-reviewed	2020	Q4
14	M. Samatham, U. Ashok Kumar , & P. Laxminarayana	Review on Burnishing Processes of Ti-6Al-4V Alloy	IJSRSET, 4	Peer-reviewed	2020	Q4
15	P. C. Shekar, U. Ashok Kumar , K. Kishore & P. Laxminarayana	Optimization of EDM Parameters for Inconel 718	Recent Trends in Mechanical Engineering	Scopus	2020	Q3
16	G. S. R. A. V. Kumar, U. Ashok Kumar , P. Laxminarayana & B. V. Reddic	Mechanical Vibrating Filter for Coolant Reclamation from Al Sludge	Materials Today: Proceedings, 19(2) 895–901	Scopus	2019	Q2
17	A. Kumar, U. Ashok Kumar , & P. Laxminarayana	Experimental Optimization of WEDM on Inconel 625	IJRASET, 45(98) 430–437	Peer-reviewed	2019	Q4
18	U. Ashok Kumar , S. M. Alam & P. Laxminarayana	Optimization of Kerf Width and Taper Angle on GFRP by AWJM	IJRASET	Peer-reviewed	2019	Q4
19	U. Ashok Kumar , B. Kasi & P. Laxminarayana	Optimization of Friction Surfacing Parameters on Low Carbon Steel (Taguchi)	Materials Science Forum, 969 691–696	Scopus	2019	Q2

S. No.	Authors	Title / Paper No.	Journal / Proceedings	Indexing / Type	Year	Journal Quartile
20	U. Ashok Kumar, P. Laxminarayana & L. Sunil Kumar	Kerf Width and Taper Angle on EN-8 Steel by AWJM	IJ of Research in Advent Technology	Peer-reviewed	2019	Q4
21	U. Ashok Kumar, P. Laxminarayana	Optimization of Process Parameters on Micro Hole Machining by EDM	IJ of Advanced Materials Manufacturing & Characterization, 8(2)	Peer-reviewed	2018	Q3
22	U. Ashok Kumar, P. Laxminarayana, K. Gangwar & M. Ramulu	Tensile Behavior and Microstructure of FSW Titanium Alloys	Materials Science & Technology 2017	Scopus	2018	Q1
23	U. Ashok Kumar, P. Laxminarayana	Optimization of Electrode Tool Wear in Micro Holes by EDM (Taguchi)	Materials Today: Proceedings, 5(1) 1824–1831	Scopus	2018	Q2
24	U. Ashok Kumar, P. Laxminarayana	Multi-Response Optimization of EDM Parameters for Micro Channels on SS 316 (Taguchi–GRA)	Materials Today: Proceedings, 5(13) 27028–27035	Scopus	2018	Q2
25	U. Ashok Kumar, P. Laxminarayana	Tool Wear Optimization in Micro Hole Machining of SS 316 by EDM	IJ of Scientific Research in Multidisciplinary Studies, 3	Peer-reviewed	2017	Q4
26	U. Ashok Kumar, P. Laxminarayana	Optimization of MRR in Micro Hole Machining by EDM	IOSR Journal of Engineering, 7(7) 61–65	Peer-reviewed	2017	Q4
27	U. Ashok Kumar, P. Laxminarayana & Aravindan	Surface Morphology on Micro Machined AISI 316 by EDM	Materials Today: Proceedings, 4(2) 1285–1292	Scopus	2017	Q2
28	P. Pratyusha, U. Ashok Kumar, & P. Laxminarayana	Optimization of Process Parameters for Milling using Taguchi Methods	Int. J. of Advanced Trends in Computer Science and Engineering	Scopus	2013	Q3

• Conference Publications

S. No.	Authors	Title / Paper No.	Conference / Proceedings	Indexing / Type
1	P. Ravindrannair, K. Kishore, P. Laxminarayana, U. Ashok Kumar, & F. H. Khan	Multi-optimization of Friction Stir Welding of Aluminium AA6061 Alloy using Grey-Based Taguchi Method	5th ISSE National Conference (INAC-05) on Systems	National Conference
2	S. Kumar, P. Laxminarayana, & U. Ashok Kumar	Optimization of Process Parameters on Kerf Width & Taper Angle on EN-8 Carbon Steel by Abrasive Water Jet Machining	3rd National Conference on Recent Trends & Innovations in Mechanical Engineering	National Conference

S. No.	Authors	Title / Paper No.	Conference / Proceedings	Indexing / Type
3	U. Ashok Kumar & P. Laxminarayana	Effect of Material Removal Rate on Micro Hole Machining using Die Sinker EDM	Приведены результаты научно-технических, опытно-конструкторских и ... (International Scientific Proceedings) -Russia	International Conference
4	U. Ashok Kumar, P. Laxminarayana, & G. Ajay Kumar	Influence of Process Parameters on Surface Roughness of EN-31 by Water Jet Machining	International Conference on Technological Advances in Mechanical Engineering (ICTAME)	International Conference
5	U. Ashok Kumar & P. Laxminarayana	Analysis of Process Parameters on Surface Roughness of EDM Surfaces	National Conference on Emerging Trends in Mechanical Engineering (ETIME-2014)	National Conference
6	U. Ashok Kumar & P. Laxminarayana	Comparison of PVD Coated and Uncoated Carbide Tools while Dry Machining of Aluminium Alloy 6063	5th International & 26th All India Manufacturing Technology, Design and Research Conference (AIMTDR)	International Conference
7	U. Ashok Kumar & P. Laxminarayana	Friction Surfacing Process of Aluminum Alloys	5th International & 26th AIMTDR Conference	International Conference
8	U. Ashok Kumar & P. Laxminarayana	Comparison of PVD Coated and Uncoated Carbide Tools while Dry Machining of Aluminium Alloy 6063 (duplicate listing)	5th International & 26th AIMTDR Conference	International Conference
9	U. Ashok Kumar & P. Laxminarayana	Friction Stir Welding: A Green Environmental Process	5th International Congress of Environmental Research (ICER)	International Conference

List of Seminars, Conferences and Workshops Attended

S. No.	Title / Theme of Programme	Organised by / Venue	Duration / Dates	Level / Type
1	5-Day Faculty Development Programme (FDP) on “Advances in Materials Science and its Applications”	Department of Mechanical Engineering, Basaveshwar Engineering College, Bagalkot	23 – 27 June 2014	FDP
2	One-Day Workshop on “Industry–Institute and Defence Labs Interaction”	Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad	30-Aug-14	Workshop

S. No.	Title / Theme of Programme	Organised by / Venue	Duration / Dates	Level / Type
3	3-Day National Workshop on “Modeling, Simulation & Optimization of Manufacturing Systems”	Department of Mechanical Engineering, National Institute of Technology (NIT) Warangal – TEQIP-II	17 – 19 October 2013	National Workshop
4	3-Day Short-Term Course on “Engineering Research Methodology”	Department of Civil Engineering, University College of Engineering (A), Osmania University, Hyderabad	26 – 28 August 2013	Short-Term Course
5	5-Day Workshop on “Reverse Engineering-Based Manufacturing” (TEQIP-II Sponsored)	Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad	24 – 28 June 2013	Workshop
6	3-Day Workshop on “Metrology as per ASME GD & T Y 14.5” (TEQIP-II Sponsored)	Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad	21 – 23 March 2013	Workshop
7	One-Day Training Programme on “CNC Machining: Tools and Techniques – TCMTT-2013”	Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad	12-Feb-13	Training
8	One-Day Seminar on “Trends in Non-Traditional Machining”	Institution of Engineers (India)	05-Jan-13	Seminar
9	5-Day Continuing Education Training on “Rapid Prototyping”	Department of Mechanical Engineering, NIT Warangal	23 – 27 January 2012	Training Programme
10	3-Day Short-Term Course on “Engineering Research Methodology”	Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad	2 – 4 February 2012	Short-Term Course
11	5-Day Workshop on “Materials Modelling & Simulation”	Centre for Modelling, Simulation and Design, University of Hyderabad	27 – 30 December 2010	Workshop
12	2-Day Workshop on “Advanced Welding Techniques”	Department of Mechanical Engineering, University College of Engineering (A), Osmania University, Hyderabad	21 – 22 October 2016	Workshop

HONORS/AWARDS

S. No.	Award Title / Recognition	Details / Description	Presented by / Venue	Date / Year
1	Vice Chancellor's Award – 2023	Received the “Vice Chancellor Award – 2023” in recognition of Research Excellence	Osmania University, Hyderabad	03-Jan-23
2	Young Scientist Award – 2019	Conferred the Young Scientist Award – 2019 during the 2nd International Conference on Recent Trends in Engineering Science and Medicine	VDGOOD Professional Association, Chennai	2019
3	Young Innovative Technological Engineer Award – 2017	Honoured for the paper titled “Die Sinker EDM in Micro Machining Applications” at the International Conference on Innovative Technological Scientific Research Strategies in Science, Engineering, Management, and Medical Technology	The Innovative Scientific Research Professional, Malaysia; jointly organised by University of Technology MARA and University of Malaya, Kuala Lumpur	22-Oct-17
4	Young Scientist Award Programme – 2015	Presented paper titled “Experimental Investigation on the Effect of Combined Electrical Discharge Machining with Ball Burnishing Process on Surface Integrity” under the Young Scientist Award Programme – 2015	Indian Science Congress, University of Mumbai, Mumbai	3 – 7 January 2015
5	ISCA Best Poster Award Programme – 2014	Presented paper titled “ <i>Friction Surfacing of Aluminium Coating over Mild Steel</i> ” under the ISCA Best Poster Award Programme – 2014	Indian Science Congress, University of Jammu, Jammu	3 – 7 February 2014
6	Young Environmental Scientist – 2012	Awarded for the best paper presentation titled “ <i>Friction Stir Welding: A Green Environmental Process</i> ” at the 5th International Congress of Environmental Research (ICER-12)	University Malaysia Terengganu, Kuala Terengganu, Malaysia	22 – 24 November 2012

APPRECIATION AWARD

1. Appreciation award for the services as an organizing committee member of the “**National Conference in Recent Advances in Mechanical Engineering**” held during 16th -17th March,2012 at Dept. Mech. Engg, UCE, Osmania University , Hyderabad , India
2. Appreciation award for the services as an organizing committee member of the “**Industry – Institute and Defence Labs Interaction**” held during 30th August, 2014 at Dept. Mech. Engg, UCE, Osmania University , Hyderabad , India
3. Appreciation award for the services as an organizing committee member of the “**National Conference in Emerging Trends in Mechanical Engineering**” held during 29-30th ,December 2014 at Dept. Mech. Engg, UCE, Osmania University , Hyderabad , India
4. Appreciation for the NBA work Done for the Dept. Mech. Engg, UCE, Osmania University in getting NBA For a period of 5 Years with effect from 5th August,2013 Hyderabad , India

VISITS AND GUEST LECTURERS DELIVERED (INDIA/ABROAD):

- Delivered an lecture talk on “ **Design of Experiments**” ,National webinar at CJITS, Janagoan, Telangana State on 24 June,2020

ADMINISTRATIVE EXPERIENCE

- Departmental Examination In-charge for UG & PG from 2012-2014
- Organizing committee member for “**National Conference on Recent Advances in Mechanical Engineering 2012**” held during 16th -17th March,2012 at Dept. Mech. Engg, UCE, Osmania University , Hyderabad , India
- Organizing committee member for “**National Conference in Emerging Trends in Mechanical Engineering**” held during 29-30th ,December 2014 at Dept. Mech. Engg, UCE, Osmania University , Hyderabad , India 2014”
- Department time table Co-ordinator for period of 2015-2017
- University Examination Branch , Co-ordinator, In-charge for UG from 2016-2017.

PROFESSIONAL MEMBERSHIPS

- ISTE – Life Member No : 67861
- ISROSET-Life Member No : 1025
- ISRPM – Life Member

Courses Taught in UG/PG

Course

UNDER GRAUDATION

- CAD/CAM
- Non- Destructive techniques
- Metallurgy & Material science
- Design of Machine Element

- Engineering Graphics
- Industrial Engineering & Management
- Unconventional machining process

POST GRAUDATION

- Engineering Research Methodology
- Material Science and Technology
- Advance manufacturing process

Labs: -

- CAD/CAM,
- Engineering Workshop Practice,
- Manufacturing Process
- Production Lab
- Computational Lab

COUNTRIES VISITED FOR JOINT RESEARCH PROJECTS/ INTERNATIONAL CONFERENCES

- Malaysia in 2012 & 2017

(Dr. U. ASHOK KUMAR)